

About Us

PENN STATE HERSHEY MEDICAL CENTER/PENN STATE HERSHEY HEALTH SYSTEM

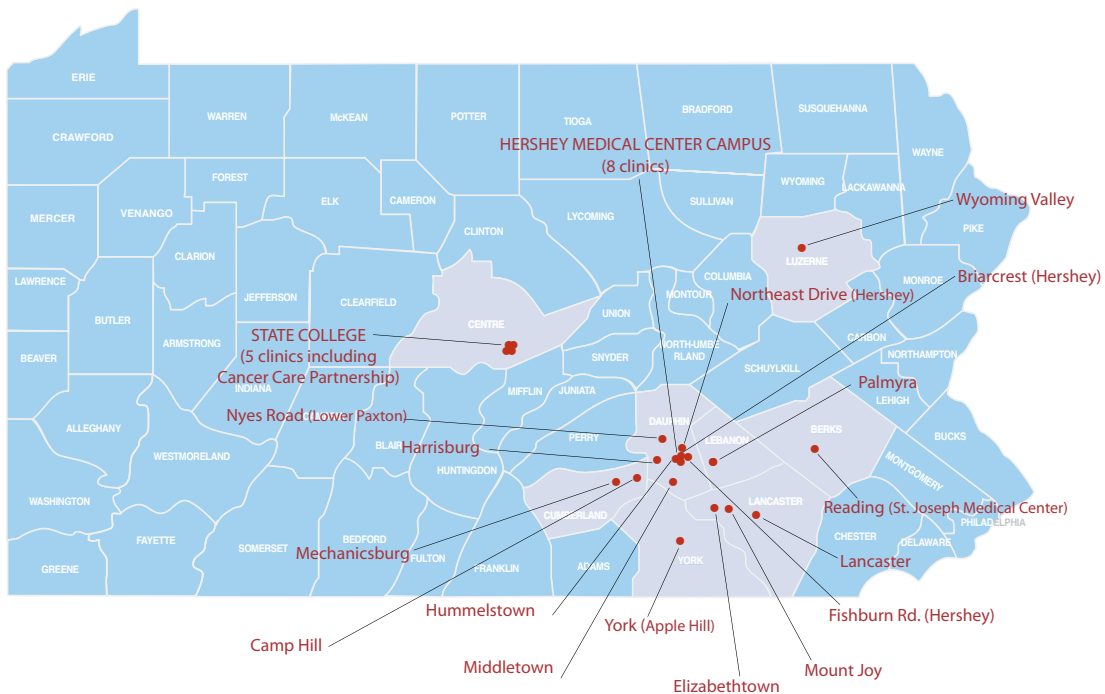
- Founded in 1963 through a gift from The Milton S. Hershey Foundation, Penn State Milton S. Hershey Medical Center is one of the leading teaching and research hospitals in the country.
- Four hospitals: Penn State Hershey Medical Center, Penn State Hershey Children's Hospital, Penn State Hershey Rehabilitation Hospital and Pennsylvania Psychiatric Institute.
- Six institutes: Penn State Hershey Cancer Institute, Penn State Hershey Heart and Vascular Institute, Penn State Hershey Bone and Joint Institute, Penn State Hershey Neuroscience Institute, Penn State Clinical and Translational Science Institute, and Penn State Hershey Institute for Personalized Medicine.
- 10,000+ employees and a combined budget of approximately \$1.5 billion.
- Twice designated as a Magnet® hospital, and achieved highest level of recognition for nursing excellence from the American Nurses Credentialing Center.
- 173 Penn State Hershey physicians were selected for inclusion in The Best Doctors in America® for 2014.
- Image-guided radiation treatment services, using the advanced technology of our Trilogy™ system and Gamma

Knife®, represent the region's first-of-its-kind collaborative approach between radiation oncology and neurosurgery.

- The only medical facility in Pennsylvania to be accredited as both an adult and a pediatric Level 1 trauma center.
- Life Lion Critical Care Transport is accredited by The Commission on Accreditation of Medical Transport Systems (CAMTS), a prestigious accreditation held by only six other services in Pennsylvania.
- More than 1,100 primary and specialist physicians and advanced practice clinicians care for patients through the Penn State Hershey Medical Group, which includes 63 specialty practices located at 24 clinics in eight central Pennsylvania counties.
- Penn State Hershey Rehabilitation Hospital, which nearly doubled in size in 2014, is a partnership with Select Medical and combines the convenience and comfort of community-based care with clinical expertise and national experience in comprehensive medical rehabilitation, transitional care, outpatient services and wound care.
- Pennsylvania Psychiatric Institute, a partnership with PinnacleHealth, creates specialized mental health



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PENN STATE HERSEY MEDICAL CENTER/PENN STATE HERSEY HEALTH SYSTEM *(Cont'd)*

treatment programs for children and adolescents, adults and seniors. It includes a hospital in Harrisburg, and two outpatient treatment centers.

- The Health System also includes the Hershey Outpatient Surgery Center, the Hershey Endoscopy Center and Horizon Home Infusion.

FAST FACTS (FY 2013-14)

Annual admissions Hershey Medical Center and Children's Hospital	29,140	Total surgical cases	29,375	Life Lion helicopter transports	1,280
Annual admissions PA Psychiatric Institute	2,116	Licensed adult beds	423	Life Lion critical care ambulance transports	661
Annual admission Pa Rehab Hospital	1,160	Licensed pediatric beds	128	Faculty physicians/advanced practice clinicians	1,100+
Annual outpatient visits	960,831	Licensed psychiatric beds	96	Residents and fellows	565
Annual emergency visits	66,983	Licensed adult rehab beds	98	Nurses	2,207
Births	1,913	Neonatal intensive care beds	32	Total staff	10,000+
		Medical Group practices	63		

PENN STATE HERSEY CHILDREN'S HOSPITAL

- Opened in 2013, the five-story Penn State Hershey Children's Hospital includes 128 beds, five pediatric-only operating rooms, a pediatric cardiac catheterization lab, blood bank and a pediatric cancer pavilion.
- The region's only children's hospital fully equipped to treat the most severely ill children with both a level IV neonatal intensive care unit and a Level I pediatric trauma center. The Children's Hospital also performs the region's only bone marrow stem cell and kidney transplants for pediatric patients.
- Supported by more than 150 pediatric medical and surgical specialists renowned in disciplines such as cancer, cardiology, orthopaedics, surgery and critical care.

- Features the only fully equipped and staffed academic level IV (highest level possible) Neonatal Intensive Care Unit (NICU) between Pittsburgh and Philadelphia.
- Selected as one of Aetna's Institutes of Excellence™ Pediatric Congenital Heart Surgery facilities.
- Named a national leader in six pediatric specialties (cancer, cardiology and heart surgery, nephrology, neurology and neurosurgery, orthopaedics, and urology) in U.S. News & World Report's 2014-15 Best Children's Hospitals rankings



PENN STATE HERSEY CANCER INSTITUTE

- The region's only comprehensive cancer center, with access to internationally recognized cancer specialists and scientists delivering a multidisciplinary approach and advanced medical technology. First in the region to offer RapidArc™ radiotherapy technology, a breakthrough in radiation treatment.
- Physicians and researchers are at the forefront of personalized cancer care to prevent and treat cancer, including personalized risk assessment and counseling, genetic and technological screening for cancer, personalized monitoring and dosing of chemotherapy. Unique clinical trials are available for patients with either early stage or advanced cancer.
- A Blue Distinction Center® for Complex and Rare Cancers by Highmark Blue Shield, which designates the institute as a facility that offers comprehensive inpatient

cancer care programs for adults delivered by multidisciplinary teams with subspecialty training, and distinguished clinical expertise in treating complex and rare subtypes of cancer.

- Earned Outstanding Achievement Award from the Commission on Cancer of the American College of Surgeons.
- Designed to foster collaboration between physicians and scientists devoted to providing comprehensive cancer care and discovering new treatments and cures, the ground and first two floors are dedicated to patient care, while the top two floors house research labs.



PENN STATE HERSEY HEART AND VASCULAR INSTITUTE

- Central Pennsylvania's only heart transplant center.
- Offers Joint Commission-accredited programs in heart failure and in implanting ventricular assist devices for destination therapy in patients with advanced heart failure.

- Facilities include two hybrid operating rooms, allowing staff to use medical imaging and advanced surgical techniques to optimize and combine therapies



- A regional center for extra corporeal membrane oxygenation (ECMO) therapy for patients in severe cardiogenic shock or pulmonary failure.
- A team of international ECMO able to travel throughout the commonwealth to start patients on ECMO earlier and expedite transfer with continued therapy management, providing increased survival rates for these critically ill patients.

- Comprehensive valve clinic with treatment options including surgical repair and replacement and transcatheter aortic valve replacement (TAVR).
- Percentage of radial artery catheterizations performed at Penn State Hershey ranks well above the national average.
- Recognized with the American Heart Association's Get With the Guidelines® Gold Plus award for heart failure care.

PENN STATE HERSHEY NEUROSCIENCE INSTITUTE

- Multi-disciplinary and comprehensive neuroscience care and follow up including research and treatment for brain tumors, stroke, aneurysms, ALS, carotid artery disease, dementia, rehabilitation, and more.
- Top neuroscience destination for children and home to the only two board-certified pediatric neurosurgeons between Pittsburgh and Philadelphia.
- Leading edge technology such as Onyx HD®, Pipeline Embolic Device™, and the newest Gamma Knife® technology, Perfexion™.
- Joint Commission-certified Comprehensive Stroke Center, the highest level of stroke certification, which recognizes the significant resources in infrastructure, staff, and

training that stroke centers must have to provide state-of-the-art, complex stroke care.

- LionNet™, Penn State Hershey Medical Center's regional stroke care network, offers real-time video consults between doctors at 13 Central Pennsylvania emergency departments and Penn State Hershey stroke specialists to provide faster diagnosis and treatment for strokes.
- Recipient of the American Heart Association/American Stroke Association Get With The Guidelines® Stroke Gold Plus award for six consecutive years.

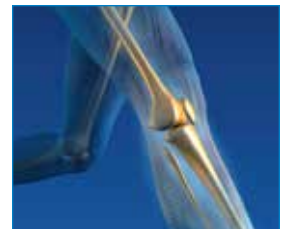


PENN STATE HERSHEY BONE AND JOINT INSTITUTE

- Leader in the care of patients with disorders of the bones, joints and spine, providing innovative care to adults and children with common to the most complex disorders.
- Collaborative approach with specialists in orthopaedics, sports medicine, spinal disorders, hand surgery, metabolic bone disease and osteoporosis, rheumatology, radiology, chronic pain management and therapy services.
- Musculoskeletal oncology program specializes in the diagnosis, treatment and reconstruction of benign and malignant tumors affecting the musculoskeletal system.
- Internationally recognized research program, within the Division of Musculoskeletal Sciences, focused on

developing novel therapeutic approaches to musculoskeletal disease.

- Designated by Highmark as Blue Distinction Centers for knee and hip replacement and spine surgery.
- Comprehensive sports medicine program specialists provide expert care to Penn State Athletics in State College and Harrisburg; several professional teams, including the Hershey Bears and Harrisburg Senators; and local high schools.



PENN STATE COLLEGE OF MEDICINE

- Established in 1963, the College of Medicine boasts a portfolio of nearly \$84 million in funded research annually.
- Nearly 1 in 6 applicants to U.S. medical schools applies to Penn State College of Medicine. A total of 8,800 individuals applied for 145 openings in the Class of 2018.
- The College of Medicine is one of 11 schools to receive a five-year AMA grant to accelerate change in medical education. First-year medical students are now being trained as patient navigators and study the science of health systems in a weekly seminar series.
- The College of Medicine offers graduate degree programs in anatomy, bioengineering, biomedical sciences, biostatistics, homeland security, laboratory animal medicine, molecular and cellular integrative biosciences, neuroscience, physiology, public health and public health sciences. There are 272 graduate students, including 30-40 MD/PhD joint-degree students at the Hershey campus, and 314 graduate students online through the World Campus.

- The College of Medicine in 2013 launched a graduate-level physician assistant program with 30 students in the inaugural class and another 30 students slated for 2014-15.
- Nursing students from Penn State's School of Nursing rotate through the Medical Center for clinical courses, and students from other Penn State health-related programs and other institutions come to Hershey for their clinical experience. The extended B.S. degree program for nurses is offered in conjunction with the School of Nursing. The College of Medicine and the School of Nursing also collaborate on a growing interdisciplinary curriculum that allows medical and nursing students to learn some clinical skills together and that facilitates better communication between the professions.



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PENN STATE COLLEGE OF MEDICINE *(Cont'd)*

- The University Park Regional Campus of Penn State College of Medicine is a collaborative effort between Penn State-University Park, the Hershey Medical Center and College of Medicine, Mount Nittany Health, and State College community providers. The regional campus offers eight clerkships in family and community medicine, internal medicine, neurology, obstetrics and gynecology, pediatrics, psychiatry, surgery and underserved medicine.
- 24 third and fourth year medical students complete their residencies at the Regional Campus.
- Clinical services offered through the University Park Regional Campus at six clinical practice sites include

acupuncture, cardiology, colorectal surgery, dermatology, eating disorders clinic, endoscopy, epilepsy clinic, family and community medicine, gastroenterology, laboratory services, neurology, neurosurgery, oncology/hematology, orthopaedics, pediatric sub-specialties (allergy, cardiology, neurology, orthopaedics, rheumatology), physical therapy, sports medicine, and vascular surgery.

- Penn State College of Medicine recently signed a memorandum of understanding with MountCrest University in Ghana to collaborate in the development of the first private medical school in that underserved nation.

RESEARCH AT PENN STATE HERSHEY

- In 2013/14, amid an extremely competitive environment, Penn State Hershey obtained \$83.4 million in external research support, a 4% increase from the previous year. Roughly two-thirds of Penn State Hershey research funding comes from the National Institutes of Health (NIH), and our research ranking has increased from 57th to 55th.
- Penn State, the Medical Center, and the College of Medicine are collectively 1 of 62 institutions nationwide to hold a Clinical and Translational Science Award. This prestigious \$27.3 million, five-year award from the

National Institutes of Health is designed to accelerate the translation of scientific discovery into methods for improving public health.

This grant supports the Penn State Clinical and Translational Science Institute (CTSI), a collaboration of many Penn State colleges and institutes, along with community and industry partners, devoted to using their research and outreach expertise to improve the health of Pennsylvanians.



Significant research projects this past year include:

- \$3.2 million from the National Institutes of Health for a national clinical trial to treat vision loss due to blood vessel blockage in the retina.
- \$1.75 million from the Patient-Centered Outcomes Research Institute to reduce unintended pregnancies through reproductive life planning.
- \$3.9 million from the National Institute on Drug Abuse declaring Penn State a Tobacco Center of Regulatory Science for innovative tobacco research.
- \$1.1 million from the PA Department of Health for a program to improve the health and eating habits of children in schools across the commonwealth.
- \$500,000 from the Agency for Healthcare Research and Quality for a program to help primary care practices improve the quality of their care.
- The Penn State Hershey Institute for Personalized Medicine brings together faculty, resources, and programs devoted to advancing the relatively new field of personalized medicine, one of the most promising frontiers in medicine. For example, researchers are collecting clinical information and tissue from ALS patients and their families with hopes that Penn State Hershey will use DNA sequence data to guide drug development that will ultimately result in personalized treatment based on an individual's DNA.
- In the 1980s, College of Medicine researchers led by John Kreider and Mary Kay Howett and funded by the Jake Gittlen Cancer Research Foundation perfected a technique for propagating the human papilloma virus (HPV), the primary cause of cervical cancer. This and other lab techniques and materials developed by microbiologists in the college helped lead to vaccines against HPV, the first of which earned FDA approval in 2006.

PENNSTATE HERSHEY



Milton S. Hershey
Medical Center



PENNSTATE HERSHEY



College of Medicine

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