Excellence and Discovery:
A Brief
Johns Hopkins Medicine

Origins of Johns Hopkins Medicine
Facts and Components
Achievements and Honors
The Future
Origins of Johns Hopkins Medicine

Johns Hopkins, the Quaker merchant, banker and businessman, left $7 million in 1873 to create The Johns Hopkins University and The Johns Hopkins Hospital, instructing his trustees to create new models and standards for medical education and health care.

He was named for his great-grandmother, Margaret Johns, her last name becoming his first (and confusing people ever since).
Origins of Johns Hopkins Medicine

From the 1889 opening of The Johns Hopkins Hospital, to the opening of the School of Medicine four years later, there emerged the concept of combining research, teaching and patient care. This was a model, the first of its kind, that would lead to a national and international reputation for excellence and discovery.

Today, Johns Hopkins uses one overarching name—Johns Hopkins Medicine—to identify its entire medical enterprise. This over $6.5 billion system unites the physicians and scientists of the Johns Hopkins University School of Medicine with the health professionals and facilities that make up the broad, integrated Johns Hopkins Health System.
The mission of Johns Hopkins Medicine is to improve the health of the community and the world by setting the standard of excellence in medical education, research and clinical care. Diverse and inclusive, Johns Hopkins Medicine educates medical students, scientists, health care professionals and the public; conducts biomedical research; and provides patient-centered medicine to prevent, diagnose and treat human illness.
Excellence and Discovery
Facts and Components
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Johns Hopkins Medicine (2013 projected)

- Over $6.5 billion in operating revenues
- More than 41,000 combined full-time equivalent employees; among largest private employers in Maryland
- Annual outpatient visits: over 2.6 million
- Annual Emergency Department visits: over 294,000
- Annual hospital admissions: over 114,000
- At $2 billion, The Johns Hopkins University is, for the 31st straight year, the leading U.S. academic institution in total research and development spending, according to the National Science Foundation’s rankings.
Facts and Components
Johns Hopkins University School of Medicine

• Annually ranked #2 in NIH funding for U.S. medical schools ($436 million)
• Medical and doctoral students: over 1,350
• Full-time faculty: over 2,700
• Part-time faculty: over 1,290
• Pioneered new curricula, including current “Genes to Society” curriculum, which teaches an “individualized medicine” model based on genetic variability, interdisciplinary diagnostics and treatment, evidence-based care, health disparities and safety
• Consistently ranked among the top three schools of medicine by *U.S. News & World Report* 2014 Best Medical Schools
Facts and Components
Johns Hopkins Nursing

• **Magnet Certification**
  The Johns Hopkins Hospital was the first health care organization in Maryland to receive Magnet designation for excellence in nursing practice from the American Nurses Credentialing Center
  – Received redesignation in 2008

• **Interdisciplinary Collaboration**
  Johns Hopkins nurses collaborate with physicians, pharmacists and other health care professionals on patient rounds, policy committees, research studies
Facts and Components
The Johns Hopkins Hospital and
Johns Hopkins Bayview Medical Center

The Johns Hopkins Hospital
Johns Hopkins is the only hospital in history to have been ranked #1 in the nation for 21 years in a row by *U.S. News & World Report*. The hospital was again ranked #1 in 2013.
1,051 licensed beds, over 1,710 attending physicians

**Johns Hopkins Children’s Center**
Consistently ranked by *U.S. News & World Report* as one of the top centers in the nation

**Johns Hopkins Sidney Kimmel Comprehensive Cancer Center**
NCI-designated cancer center; ranked third in the nation by *U.S. News & World Report*

Johns Hopkins Bayview Medical Center
538 licensed beds, over 530 attending physicians

Note: all licensed bed counts are 2012, including NICU
Facts and Components
Other Johns Hopkins Hospitals

All Children’s Hospital (St. Petersburg, FL)
259 licensed beds, over 420 primarily community physicians
- Received the HealthGrades Pediatric Patient Safety Award
- One of 19 centers in the Neonatal Research Network, an NIH-sponsored consortium dedicated to research on improving neonatal outcomes

Howard County General Hospital (Columbia, MD)
267 licensed beds, over 740 primarily community physicians
- Received the HealthGrades Distinguished Hospital Award for Clinical Excellence™

Note: all licensed bed counts are 2012, including NICU
Facts and Components
Other Johns Hopkins Hospitals

Sibley Memorial Hospital (Northwest Washington, D.C.)
328 licensed beds, over 800 primarily community physicians
• Ranked among the top 100 hospital programs in the country for hip replacement and is a benchmark hospital for successful hip replacement surgeries

Suburban Hospital (Bethesda, MD)
233 licensed acute beds, over 880 primarily community physicians
• Joint cardiac surgery program with Suburban and NIH
• Focus on open-heart surgical procedures

Note: all licensed bed counts are 2012, including NICU
Johns Hopkins Green Spring Station
(Northern Baltimore County)

Johns Hopkins White Marsh
(Eastern Baltimore County)

Johns Hopkins Bethesda (formerly Suburban Outpatient Medical Center)
(Central Montgomery County)

Johns Hopkins Odenton
(Western Anne Arundel County)

Virtually all specialty services are offered, including: outpatient surgery, internal medicine, family practice, gyn/ob, pediatrics, cardiology, gastroenterology, ophthalmology, orthopedics/rehabilitation, radiology, Wilmer Optical, and medical laboratory
Facts and Components
Johns Hopkins Health System (2013 projected)

Johns Hopkins HealthCare
Managed care plans covering over 320,000 lives in three unique populations, including Medicaid, Employer Health Programs, and US Family Health Plan

Johns Hopkins Community Physicians
Over 850,000 annual patient visits at more than 38 primary and specialty care practices, with over 300 providers

Johns Hopkins Home Care Group
A full-service home care provider; Joint Commission accredited; CMS certified, with over 100,000 patients served
Johns Hopkins University School of Medicine
Consistently ranked by USN&WR among top 3 U.S. medical schools; ranked #2 in NIH funding for U.S. medical schools -- $436 million; 2,450 full time faculty; 1,350 MD and PhD students.

Johns Hopkins Community Physicians
Over 850,000 annual patient visits at more than 38 primary and specialty care practices, with over 300 providers.

Johns Hopkins Health System Hospitals and Health Care and Surgery Centers
Includes The Johns Hopkins Hospital, ranked among the top hospitals in the nation by USN&WR; Johns Hopkins Bayview Medical Center; All Children’s Hospital, Howard County General Hospital; Sibley Memorial Hospital; and Suburban Hospital. Johns Hopkins Health Care and Surgery Centers: Green Spring Station, Odenton, White Marsh.

Johns Hopkins HealthCare
Managed care plans at financial risk for over 320,000 lives in three unique populations, including Medicaid, commercial, and U.S. Family Health Plan; served by a statewide owned and contracted provider network.

Johns Hopkins Bloomberg School of Public Health
First institution, and largest institution of its kind in the world; Ranked No. 1 by USN&WR; over 500 full-time faculty members. National leader in risk assessment, health care measurement and forecasting.

Johns Hopkins School of Nursing
Ranked by USN&WR as 1st overall for Graduate Programs.

Johns Hopkins Home Care Group
Joint Commission accredited and CMS certified, with over 100,000 patients served.

Johns Hopkins Medicine International
Provides personalized care for international and out-of-state patients; raises the standard of health care around the world through strategic alliances and affiliations.
One-stop medical care with comprehensive diagnostic and specialty services provided by Johns Hopkins faculty or Johns Hopkins-community/affiliated physicians in Maryland.

- Not shown on map:
  All Children’s Hospital
  (St. Petersburg, Florida)
Facilitates the global expansion of the Johns Hopkins Medicine mission

- Provides personalized care for patients from outside Maryland and the U.S., and for local patients with limited English proficiency
- Mission-driven collaborations throughout the world:
  - **Jointly owned and managed**: Johns Hopkins Singapore International Medical Centre
  - **Managed**: Tawam, Al Rahba and Corniche hospitals (United Arab Emirates); Hospital Punta Pacífica (Panama); Perdana University Hospital (Malaysia, opening 2013)
  - **Clinically operated**: Tawam Molecular Imaging Centre (UAE)
  - **Affiliations**: Chile, Japan, Lebanon, Turkey, Peru
  - **Strategic collaborations**: Canada, China, Colombia, Malaysia, Mexico, Peru, Trinidad and Tobago
Excellence and Discovery
Achievements and Honors
Achievements

• Pioneered surgery for breast cancer (1889)
• First major medical school in the United States to admit women (1893)
• First to develop renal dialysis (1912)
• First direct heart surgery (blue baby operation, 1944)
• Developed cardiopulmonary resuscitation – CPR (1958)
• Invented first implantable, rechargeable pacemaker for cardiac disorders (1972)
• Pioneered complex surgeries for separating twins joined at the head (1987)
• Among the first to isolate and cultivate human embryonic stem cells (1998)
• Discovered that in-vitro fertilization (IVF) appears to be associated with a rare combination of birth defects characterized by excessive growth of various tissues (2002)
• Developed the first biologic pacemaker for the heart, paving the way for a genetically engineered alternative to implanted electronic pacemakers (2002)
Achievements

• Pioneered exchange of kidneys among incompatible donors:
  – First triple transplant, 2003
  – First five-way domino transplant, 2006
  – First six-way donor kidney swap among 12 individuals, 2008
  – First eight-way donor kidney swap among 16 individuals, 2009

• Developed a “safety checklist” that has saved thousands of lives by reducing blood stream infections (2006)

• Surgeons at Johns Hopkins pioneered brain operations by entry incision through the eyelid to reach the skull and deep brain, replacing the more physically damaging and invasive traditional means of entry, requiring opening the top half of the skull (2010)
“Telomere” Expert Carol Greider Shares 2009 Nobel Prize in Physiology or Medicine

Carol Greider, Ph.D.
Daniel Nathans Professor and Director of Molecular Biology and Genetics, Institute for Basic Biomedical Sciences, Johns Hopkins University School of Medicine

Dr. Greider, one of the world’s pioneering researchers on the structure of chromosome ends known as telomeres, was awarded the 2009 Nobel Prize in Physiology or Medicine by the Royal Swedish Academy of Sciences. She was recognized for her 1984 discovery of telomerase, which maintains the length and integrity of chromosome ends and is critical for the health and survival of all living cells and organisms.
Peter C. Agre, M.D.

Professor of Biological Chemistry. Director of the Johns Hopkins Malaria Institute. Johns Hopkins University School of Medicine

Dr. Agre, a 1974 graduate of the Johns Hopkins University School of Medicine, was awarded the 2003 Nobel Peace Prize by the Royal Swedish Academy of Sciences for his discovery of what he called the “aquaporin” proteins, which form the channels that enable water to flow in and out of cells. His discovery was recognized as “of great importance for understanding many diseases of the kidneys, heart, muscles and nervous system.” Scientists throughout the world now are searching for drugs that can specifically target water channel defects.
Awards & Honors

• 20 current/former School of Medicine scientists are Nobel Prize laureates

• 34 School of Medicine faculty, fellows or alumni have received the Lasker Award (the “American Nobel”)

• 23 members of the School of Medicine’s current faculty have been elected to the National Academy of Sciences; 54 faculty elected to Institute of Medicine

• 4 School of Medicine faculty/alumni have received the Presidential Medal of Freedom (Helen Taussig, Denton Cooley, Arnall Patz and Benjamin Carson)
Awards & Honors

- 2007 National Physician of the Year Award for Clinical Excellence: Dr. Patrick Walsh
- 2007 King Faisal International Prize in Medicine: Dr. Patrick Walsh

Peter Pronovost, M.D., Ph.D.  Lisa Cooper, M.D.  Patrick Walsh, M.D.
Excellence and Discovery
The Future
The Johns Hopkins Hospital’s new clinical building opened in May 2012, and reflects Johns Hopkins excellence in teaching, research and patient care.

**Sheikh Zayed Tower**
12 stories, 913,000 square ft., 23 operating rooms, 259 acute care rooms, and 96 intensive care rooms. Features the most technologically advanced ED in the nation.

**The Charlotte R. Bloomberg Children’s Center**
12 stories, 560,000 sq. ft., 10 operating rooms, 120 acute care rooms, 45-bed neonatal ICU, 40-bed pediatric ICU.
“At Johns Hopkins Medicine, we talk about excellence and discovery because both are firmly embedded in our 130-year history. The modern medical education was born and revolutionized at Johns Hopkins and countless advances in medicine were made here by Hopkins physicians and scientists.

Now, at the beginning of the 21st century, Johns Hopkins Medicine has evolved into a nationally and internationally recognized organization -- a medical system, built to deliver evidence-based medicine, with cutting-edge innovation. But beyond the Nobel Prizes and high rankings and brick and mortar towers, Johns Hopkins is about our people -- skilled and dedicated, always tempered with compassion and altruism.”

Paul B. Rothman, M.D.
Dean of the Medical Faculty
CEO, Johns Hopkins Medicine
To learn more, please visit us at:

www.hopkinsmedicine.org