



MedStar Health
Research Institute

Fact Sheet



About MedStar Health Research Institute

MedStar Health Research Institute provides scientific, administrative, and regulatory support for research programs conducted across the MedStar Health system. Situated at the crossroads of academics and real-world healthcare environments, the Research Institute creates new knowledge that provides the latest advances for patients at nearly 300 sites of care in the region.

Located in one of the most culturally diverse regions of the United States, MedStar Health Research Institute serves as a national resource for researchers and policymakers concerned about the health care of racial and ethnic minority populations. As an academic health system, MedStar Health investigators connect the community to MedStar Health medical facilities, to our academic partners at Georgetown University, and to residents and fellows through extensive graduate medical education programs.

MedStar Health Research Institute has:

300+ ACTIVE INVESTIGATORS

1,500 ASSOCIATES TRAINED AND INVOLVED IN RESEARCH

1,000+ PEER-REVIEWED RESEARCH PUBLICATIONS ANNUALLY

\$40 MILLION IN RESEARCH REVENUE

1,000 OPEN RESEARCH STUDIES

Our Research Networks

CARDIOVASCULAR RESEARCH NETWORK

This network is comprised of basic scientists and senior cardiovascular investigators, research nurses, and technicians who are dedicated to state-of-the-art research in cardiovascular care. The research network utilizes the entire experience of MedStar Health patients, including more than 18,000 catheterizations, 5,000 percutaneous interventional procedures, and 1,800 open-heart procedures each year.

Research topics include:

- Acute coronary syndrome
- Angiogenesis and Myogenesis
- Atherosclerosis and lipids therapy
- Cardiac imaging
- Structural heart interventions
- Left atrial appendage occluder
- Electrophysiology
- Congestive heart failure
- Drug eluting stent registries
- Gene discovery
- Peripheral vascular disease device studies
- Pharmacologic therapies
- Wearable technologies

HEALTH CARE DELIVERY RESEARCH NETWORK

Every day, MedStar Health investigators are studying and implementing new ways to improve the delivery of health care. Our health services research program continues to expand and now serves as a national network for health researchers and policy makers to help set national priorities and recommend standards of care.

Research topics include:

- Access to care and utilization
- Care delivery models
- Data science
- Dissemination and evaluation
- Health economics and policy
- Health equity
- Health outcomes
- Health IT
- Health services research
- Human factors
- Medical-legal partnerships
- Palliative care
- Population health
- Quality improvement
- Quality and safety

MEDSTAR-GEORGETOWN CANCER RESEARCH NETWORK

All of our cancer care is research driven and research inspired. MedStar Health clinicians conduct a variety of cancer trials ranging from treatment of the actual cancer to supportive care for symptom management. Our cancer research intends to treat both early and advanced disease, assuring that every person with cancer has access to the best therapies.

Research topics include:

- Brain cancer
- Breast cancer
- Digestive and gastrointestinal cancer
- Endocrine and thyroid cancer
- Gynecological cancer
- Head and neck cancer
- Hematologic cancer
- Melanoma
- Precision medicine
- Radiation oncology
- Sarcoma
- Thoracic cancer

Research Expertise

The transformational nature of our research—from bench to bedside to community—complements the key clinical services and teaching programs in our hospitals and in the diverse communities we serve.

The 300+ active investigators at MedStar Health are nationally and internationally known researchers who serve on editorial review boards of prominent scientific medical journals and have prestigious National Institutes of Health committee and academic appointments. Their research activities continue to lead to successful system-wide implementation and interventions at MedStar Health and across the nation.

Core Scientific Services

- Biomarker, Biochemistry, and Biorepository Core
- Biostatistics and Biomedical Informatics
- Research Pharmacy
- Pre-Clinical Research Laboratory

Administrative Research Support

- Institutional Review Board through Research Integrity
- Research Development, Planning, and Communications
- Contracts and Grant Management
- Research Financial Management
- Educational and Clinical Research Programs
- Resident Research Support
- Intramural Grant Opportunities
- Annual MedStar Health–Georgetown University Research Symposium
- Georgetown-Howard Universities Center for Clinical Translational Science




MEDICAL AND SURGICAL RESEARCH NETWORK

MedStar Health investigators are dedicated to improving the medical care provided to patients and to advancing healthcare practices through clinical and basic research. Our researchers participate in both investigator-initiated research programs and commercially sponsored clinical trials for a variety of diseases and conditions.

Research topics include:

- Community research
- Dermatology
- Emergency and critical care
- Gastroenterology
- General, plastic, and transplant surgery
- Infectious diseases
- Pulmonary
- Rheumatology
- Trauma and burn
- Women's health and infant services



NEUROSCIENCE AND REHABILITATION RESEARCH NETWORK

A variety of innovative programs keeps MedStar Health at the forefront of neuro-rehabilitation treatment and technology. Our researchers conduct studies and develop new interventions for patients with neurologically based impairments, evaluate the effectiveness of new and existing interventions, enhance understanding of the bases of impairment and disability, and develop new methods to assess human function and performance.

Research topics include:

- Aphasia
- Cerebral palsy
- Epilepsy
- Spasticity
- Spinal cord injury
- Stroke
- Traumatic brain injury
- Upper extremity amputation
- Neuromuscular system
- Neurophysiology
- Tele-rehabilitation
- Rehabilitation robotics
- Locomotion and balance



ORTHOPAEDICS AND SPORTS MEDICINE RESEARCH NETWORK

The orthopaedic research program at MedStar Health is closely aligned with its world-class clinical programs, where there is close collaboration between orthopaedic surgeons, research fellows, and engineers. Surgical training and teaching laboratories are provided in a one-on-one setting. Research efforts focus on the musculoskeletal system. Investigators within this program have conducted collaborative research in conjunction with the NFL, MLB, and U.S. National Lacrosse, among others.

Research topics include:

- 3-D printing
- Biomechanical testing
- Concussion
- Histology
- Injury control
- In-vivo biological modeling
- Orthopaedic clinical trials
- Pre-participation exams and clinical screening
- Protective athletic equipment
- Radiography

MedStar Health Overview

Total number of inpatient admissions	136,810
Total number of outpatient visits	4.6 million
Net operating revenue	\$5.53 billion
Philanthropy	\$31.9 million
Number of associates, residents, and fellows	31,000
Nurses	8,400
Residents and fellows	1,200
Number of Affiliated Physicians	5,400
Employed Physicians	2,500

Data from FY 2017

Regional Network

Hospitals

- MedStar Franklin Square Medical Center
- MedStar Georgetown University Hospital
- MedStar Good Samaritan Hospital
- MedStar Harbor Hospital
- MedStar Montgomery Medical Center
- MedStar National Rehabilitation Network
- MedStar Southern Maryland Hospital Center
- MedStar St. Mary's Hospital
- MedStar Union Memorial Hospital
- MedStar Washington Hospital Center

Home Health Care

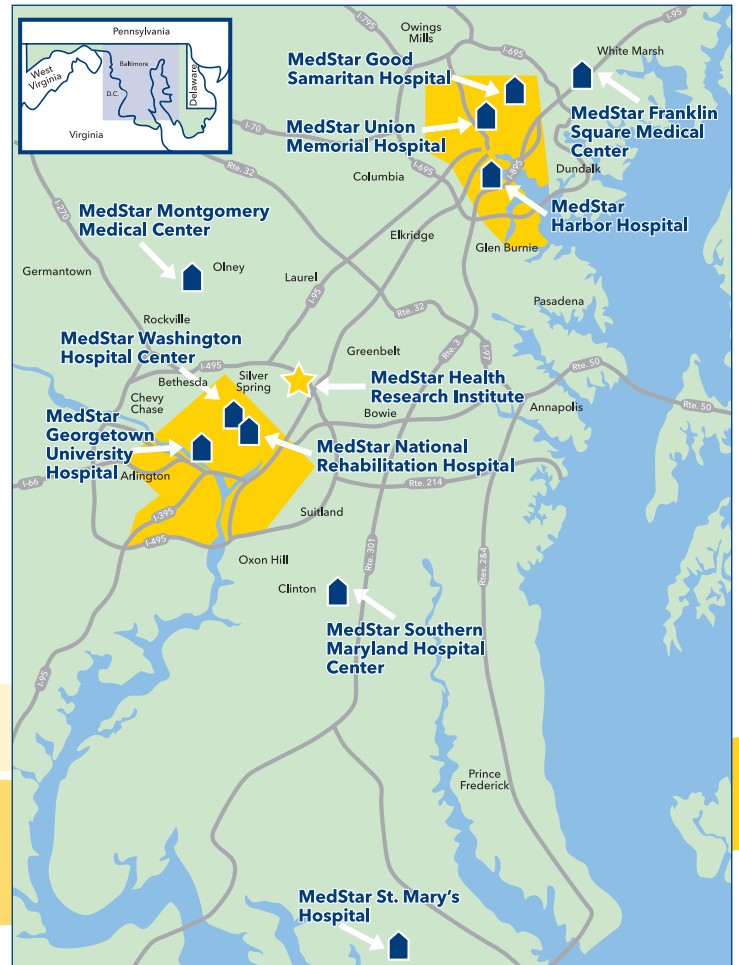
- MedStar Health Infusion
- MedStar Visiting Nurse Association
- MedStar Visiting Nurse Association Care Partners

Services in Our Community

- MedStar Ambulatory Services
- MedStar NRH Rehabilitation Network
- MedStar Pharmacy
- MedStar PromptCare
- MedStar RadAmerica

Physicians Practices in Our Community

- MedStar Medical Group
- MedStar Georgetown Physician Group



MedStar Health Research Institute

6525 Belcrest Rd., Suite 700
Hyattsville, MD 20782-2031
301-560-7300 **PHONE**
research@medstar.net **EMAIL**

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@MedStarResearch

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