MedStar Health combines the best aspects of academic medicine, research and innovation with a complete spectrum of clinical services to advance patient care. As the largest healthcare provider in Maryland and the Washington, D.C., region, MedStar Health’s 10 hospitals, the MedStar Health Research Institute and 20 other health-related organizations are recognized regionally and nationally for excellence in medical care and research. MedStar Health has one of the largest graduate medical education programs in the country, training more than 1,100 medical residents annually, and is the medical education and clinical partner of Georgetown University.

The MedStar Health Vision: To be the trusted leader in caring for people and advancing health

MedStar Health Research Institute - Facts and Statistics

- Founded in 1963
- Ranks in top 10 percent of recipients of research funding from the National Institutes of Health
- More than 1,000 open clinical research studies
- More than 270 associates
- More than 300 active scientists/investigators
- More than 1,500 MedStar Health personnel trained and involved in research
- More than 500 research publications annually
- Research performed in virtually every MedStar Health hospital and across outpatient MedStar Health facilities

Research Resources and Support

Core Administrative Services:
- Institutional Review Board and Office of Research Integrity
- Office of Contracts and Grants Management
- Office of Financial Management
- Information Technology

Multidisciplinary Core Scientific Services:
- Clinical Trials Core
- Biochemistry and Biomarker Core (CAP accredited)
- Bio-Repository Core
- Biostatistics and Bioinformatics Core
- Cardiac and Vascular Pathology Core
- Cardiovascular Core Imaging Center
- Core Platelet Center
- Genetics/Genomics/Proteomics Core
- Pre-Clinical Lab (AAALAC accredited)
- Research Pharmacy
- Biophotonics
- Molecular Biology Core Lab

- Human Resources
- Compliance
- Business Development
- Philanthropy
- Communications and Marketing
- Facilities
**Our Research Expertise**

From bench to bedside to community, MedStar Health Research Institute investigators are involved in pre-clinical investigation, investigator-initiated studies, early phase I/II clinical trials, large phase III multi-center trials, and testing clinical application of new advances in clinical practice. As part of a multi-hospital academic medical system spanning two cities, MedStar Health Research Institute is ideal for investigating healthcare delivery and outcomes research in tertiary-, specialty- and community-based hospital settings that serve one of the most diverse patient populations in the United States. The MedStar Health Research Institute’s areas of research strength include:

<table>
<thead>
<tr>
<th>Cardiovascular</th>
<th>Health Services</th>
<th>Neuro-Rehabilitation</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Coronary and carotid interventions</td>
<td>• Human factors engineering</td>
<td>• Spinal cord injury</td>
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<tr>
<td>• Cardiac arrhythmia</td>
<td>• Patient safety and quality</td>
<td>• Stroke</td>
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<tr>
<td>• Cardiovascular surgery</td>
<td>• Telehealth</td>
<td>• Traumatic brain injury</td>
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<td>• Electrophysiology</td>
<td>• Healthcare-associated infections (HAIs)</td>
<td>• Upper extremity amputee</td>
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<td>• Antiplatelet research center for PCI</td>
<td>• Post-acute care</td>
<td>• Biomechanics and robotics</td>
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<tr>
<td>• Percutaneous valve implantation</td>
<td>• Healthcare delivery</td>
<td>• SCI and stroke navigators</td>
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<tr>
<td>• Cardiovascular imaging</td>
<td>• Healthcare payment</td>
<td>• Education and training</td>
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<tr>
<td>• Angiogenesis/myogenesis</td>
<td>• Healthcare economics and policy</td>
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<tr>
<td>• Gene discovery</td>
<td>• Health IT</td>
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<tr>
<td>• Vulnerable plaque</td>
<td>• Access to care</td>
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<tr>
<td>• Stem cell therapy strategies</td>
<td>• Comparative effectiveness/outcomes</td>
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<tr>
<td>• Molecular diagnostic and therapeutic strategies</td>
<td>• Disparities</td>
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<tr>
<td>• Devices in peripheral vascular disease</td>
<td>• Palliative care</td>
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<td>• Pharmacologic therapies</td>
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<td>• Vascular biology and endothelial function</td>
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<td>• Lipoprotein and atherosclerosis</td>
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<tr>
<td>• Cardiac and vascular pathology</td>
<td></td>
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<tr>
<td>• Congestive heart failure</td>
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</tbody>
</table>

**Oncology (Cancer)**

- Brain/Central nervous system
- Breast
- Gastrointestinal/Digestive
- Genitourinary
- Gynecologic
- Head and neck
- Hematologic/Blood
- Lung/Thoracic
- Melanoma
- Quality of life
- Sarcoma/Musculoskeletal
- Supportive care/Biosocial
- Thyroid

**Gastroenterology and Digestive Diseases**

- Colorectal surgery
- Motility disorders
- Inflammatory bowel disease

**Endocrinology**

- Diabetes prevention and education
- Gestational diabetes
- Lipid abnormalities
- Obesity and metabolic syndrome
- Thyroid disorders

**Orthopaedics and Sports Health**

- Orthopaedic surgery
- Hand surgery
- Concussion
- Experimental drugs and devices
- Primary care sports medicine
- Musculoskeletal disorders and novel techniques
- Sport safety and policy

**Burn and Trauma**

- Microvascular assessment
- Shock
- Dermal substitutes
- Scarring, natural history and treatment
- Pathophysiology of electrical injury
- Mechanisms of burn and related wound healing
- Nutritional requirements in trauma
- Sepsis and complications of trauma

**Women’s and Infants’ Services**

- Genetic and fetal medicine
- Incontinence
- Pelvic-floor disorders
- Adolescent medicine
- HIV and pregnancy

**Neuro-Rehabilitation**

- Spinal cord injury
- Stroke
- Traumatic brain injury
- Upper extremity amputee
- Biomechanics and robotics
- SCI and stroke navigators
- Education and training

**Pulmonary Medicine and Critical Care**

- Sepsis/shock
- Adult respiratory distress syndrome (ARDS)
- Venous thromboembolism
- Heparin-induced thrombocytopenia
- Pharmacoeconomic studies

**Nephrology**

- Kidney transplantation, including HIV
- Glucose metabolism
- Immunotherapeutics
- Chronic kidney disease
- Pregnancy-associated kidney disease
- Vascular access

**Rheumatology**

- Systemic Lupus Erythematosus (SLE)
- Rheumatoid Arthritis (RA)
- Connective tissue disorders
- Autoimmune diseases
- Fibromyalgia
- Lyme disease
- Steroid-induced osteoporosis
- Vasculitis
- Gout
- Musculoskeletal conditions

**Infectious Diseases**

- Transplant infections
- Pulmonary Infections
- Sepsis
- HIV
- Viral hepatitis

**Other**

- Medical education research
- Eye surgery
- Epidemiology
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

**Other Research-Related Facilities:**
- Outpatient Research Facility at University Town Center
- Penn Medical Lab
- George Hyman Research Building (labs, bench research, etc.)

**MedStar Health Overview**
- Number of associates, residents and fellows 30,000
- Number of affiliated physicians 6,000
- Total number of inpatient admissions 150,681
- Total number of outpatient visits 3.7 million
- Net operating revenue $4.2 billion

MedStarResearch.org