

Healthcare Innovation Program

Health Services Research

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Health Services Research

Definition: *AcademyHealth*

A multidisciplinary scientific field of healthcare:

- Quality (safety, outcomes, satisfaction)
- Costs (value)
- Access (utilization)

And the impact on each by:

- Social determinants, personal behaviors
- Economics and technology
- Organizational structures and processes

HSR is the science/field of study that asks:

- What works?
- For whom?
- At what cost?
- Under what circumstances?



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Definitions: *T0 -T4 Research*

T0: Basic Science; Bench

In vitro, animal model, simulation studies of pathophysiology, mechanisms of health and disease.

T1: Application; Bedside (Phase 1, 2 Trials)

Initial application to potential human use; animal, simulation, clinical studies of safety, potential efficacy.

T2: Efficacy; Clinical trials (Phase 2, 3 Trials)

Human clinical trials across selected large patient cohorts to confirm effectiveness vs control cohorts.

T3: Implementation; Clinical practice (Phase 4 Trials)

Studies on new interventions to standard practice, examining effectiveness, safety, outcomes.

T4: Dissemination; Population health

Studies of interventions and determinants (medical, social, policy, delivery models, etc) on population health and illness.



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Background

Rationale

- Emory priority to expand health services research
- Existing programs scattered across units, institutions
- Limited resources to establish traditional “center”

Strategy

- Leverage complimentary assets at Emory, Georgia Tech
- Engage local academic and healthcare organizations
- Leverage HC research, educational and service programs



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Goals

Increase Quality/Scope/Scale of HSR&E

- Enhance current research, education, service programs
- Identify/stimulate new programs
- Expand faculty, student, staff interactions
- Facilitate access to information/collaborators for grant submissions, educational offerings, new programs

Increase Recognition/Impact of HSR&E

- Locally - speakers, symposia, projects, seed grants
- Nationally, globally
 - external advisory board
 - website, social media, communication





Overview: Plan

An interactive network that provides

- Information: people, programs, news, events
- Resources: seed grants, infrastructure, media
- Connections: among/between faculty, staff, students
- Leverage: existing assets; avoid costs

Facilitate/accelerate healthcare innovation

- Research: health services/systems; clinical effectiveness
- Education: symposia, workshops, courses
- Programs: health care quality, access, value



Development Phases

Phase I: Sept 2010-Jan 2011

- Appoint SPC, hire Coordinator (0.5FTE)
- Refine strategy & plan
- Inventory Emory activities by people, topics
- Develop internal website

Phase II: Jan- April 2011

- Inventory Georgia Tech activities
- Engage ACTSI, CHOA
- Initiate interdisciplinary interest groups

Phase III: April-Sept 2011

- Launch website, enhance functionality; track use
- Expand partners, content



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Implementation

Phase IV: Sept 2011-Sept 2012

- Appoint EAB, faculty/student liaisons, RAs
- Initiate seed grants, symposia, student programs
- Assess educational offerings, student interests

Phase V: Sept 2012-Sept 2013

- Facilitate inter-institutional projects
- Form student groups (AH, HIL), appoint liaisons
- Develop HSR funding/activity analytics

Phase VI: Sept 2013-Sept 2014

- Initiate student symposia, essays, blogs
- Design, offer courses on Healthcare & HSR
- Develop Implementation Science program



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Website Content

Healthcare Topics – 9 major topics are covered by the healthcare services research, educational and program activities of Emory and other support organizations

- Access to Healthcare
- Delivery and Payment Models
- Economic Values and Models
- Education and Communication
- Disease Prevention and Patient Management
- Population Safety and Risk
- Technology and Informatics
- Outcomes and Evaluations
- Social Determinants and Disparities



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Website Content (cont.)

Research

- Projects at Emory, Georgia Tech, Morehouse School of Medicine, Georgia CTSA members and their partner institutions span all HIP topics
- Projects can be sorted by topic, school, organization, faculty, etc.
- >1300 projects; >700 faculty

Educational Offerings

- By program topic, schools, organization (>50 courses)
- Seminars, lectures, meetings, courses, program/center

Information, Resources, Faculty

- Faculty by topic/category, sponsor, institution
- Funding sources, support programs/organizations
- News, opinions, events, Innovation Highlights, etc.



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Website: <http://hip.emory.edu/>



The screenshot shows the homepage of the Emory University Healthcare Innovation Program. At the top left is the Emory University logo and the text "EMORY UNIVERSITY Healthcare Innovation Program". To the right are links for "Home" and "CONTACT US". Below this is a navigation menu with "HOME", "ABOUT", "PROGRAM TOPICS", "PROJECTS", "FACULTY", "RESOURCES", and "EDUCATIONAL OFFERINGS". A search icon is on the far right. The main content area features a blue-tinted background image of people in a lab. The text reads: "The Emory-Georgia Tech Healthcare Innovation Program (HIP) is an interactive network among members of the Georgia Clinical & Translational Science Alliance (Georgia CTSA) that provides information, resources, and community connectivity to support and enhance innovation in healthcare services research, education, and programs." Below this is a button that says "LEARN MORE ABOUT HIP >>".

What We Do

The Healthcare Innovation Program (HIP) supports and enhances the activities of faculty, staff, and units throughout the region to create, disseminate, and apply knowledge about healthcare service and delivery in order to benefit society.



NEWS AND OPINIONS

We follow innovation in healthcare delivery, service, and systems coverage nationally and locally.

[Georgia CTSA News](#)

[Emory Health Services Research Center \(HSRC\)](#)

[IPaT News](#)

[PCORI Funding Opportunities](#)

[View all News](#)



UPCOMING EVENTS

Along with our partner organizations, we offer a wide range of seminars, lectures and events.

[HIP Symposia](#)

[HIP Student Activities](#)

[Georgia CTSA Events](#)

[IPaT Events](#)

[View All Upcoming Events](#)



RESOURCES

Our partner organizations connect to a wide network of faculty expertise and healthcare innovation resources.

[Faculty](#)

[Funding Sources](#)

[Support Programs](#)

[Academic Databases](#)

[View all Resources](#)



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Participating Institutions

Universities

- Emory University
- Georgia Tech University
- Morehouse School of Medicine
- Georgia State University
- University of Georgia

Health Systems

- Emory Healthcare
- Children's Healthcare of Atlanta
- Grady Health System
- Atlanta VAMC

Organizations

- Georgia Clinical & Translational Science Alliance
- CDC



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Institutional Liaisons

Emory University

College of Arts and Sciences

Goizueta Business School

Emory Law School

Rollins School of Public Health

School of Medicine

School of Nursing

Emory Healthcare

Georgia Tech University

Schiller Business School

Institute for People & Technology

Institute for Bioengineering & Bioscience

Georgia Tech Research Institute



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Institutional Liaisons

Morehouse School of Medicine

Georgia State University

Children's Healthcare of Atlanta

Grady Health System

Atlanta VAMC

American Cancer Society

Kaiser-Permanente SE Center for Healthcare Research

Centers for Disease Control and Prevention



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Student Advisory Group

School Representatives

College of Arts and Sciences

Alpha Epsilon Delta Pre Health Honor Society

Goizueta Business School

Goizueta Healthcare Club

Law School

Health Law Society

School of Medicine

Medical School Senate (SGA)

School of Nursing

Graduate Nursing Council (SGA)

School of Public Health

Rollins SGA

Georgia Tech University

Bioengineering/Bioscience Grad Students



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Student Advisory Group Organization Representatives

IHI-Open School

AcademyHealth Emory Student Chapter

Healthcare Innovation Lab

AMA/Medical Student Section

Emory Healthcare House Staff Organization

**Healthcare Innovation Program
Research Assistants**



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Programs – Activities

Seed Grants

Semi-annual awards (\$25k/yr) for multi-institution, multi-disciplinary pilot or complete projects: **14 rounds, 31 awards, >500 participants**

Symposia

Quarterly on “US Healthcare: What’s Broken & How to Fix It” with guest speaker + local experts: **30 symposia; >185 speakers, >2500 attendees**

Interest Group Meetings

Group discussions among faculty & student groups on specific topics of interest with experts/guest speakers: **>210 meetings, >40 different groups**

Research Project Workgroups

Multi-institutional workgroups assembled/facilitated to identify/develop HSR projects: **22 groups, 11 institutions, >120 participants**

Student-Professional Networking

Semi-annual events for students to discuss health careers/opportunities with local professionals: **8 events, >700 students, >120 professionals**



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Seed Grants: Affiliations

University Faculty Affiliations

- 220 Emory: 152 Medicine (16 depts), 37 RSPH (4 depts), 29 Nursing, 2 Arts & Sciences
- 51 GaTech: 39 Engineering, 15 GTRI, 7 Computing, 6 Architecture, 1 Science
- 23 Georgia State: 15 Nursing & Health Profs, 3 A&S, 5 Other
- 12 Morehouse; 2 Duke; 1 UGA; 1 Northwestern, 2 Other

Hospital Staff Affiliations

- 59 Emory Healthcare
- 34 Children's HOA, Emory - Children's Center
- 17 Grady Health System
- 14 Atlanta VA Medical Center



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Symposia

“US Healthcare: What’s Broken & How to Fix It”

30 symposia, 185 speakers, 70 institutions, 32 schools/depts

Date	Keynote Speaker	Symposium Topic
02/11/20	Tait Shanafelt	Burnout, Satisfaction and Work-life Integration
12/02/19	Mark Tykocinski	The Evolving Future of Medical Education
11/04/19	David Newman-Toker	Diagnostic Errors & Patient Safety: What Can We Do?
04/09/19	Robert Califf	How Can We Use Data to Improve Health?
03/19/19	Student Symposium	Religion in Healthcare
02/20/19	Mary Naylor	Fumbling the Handoff in Transition Care
12/04/18	Antony Rosen	How Precision Medicine Can Help Everyone
03/28/18	Mark McClellan	Burning Issues in Health Policy
03/06/18	Student Symposium	Leveraging Technology in Healthcare Innovation
11/28/17	David Nash	Leadership in Population Health
10/26/17	Lisa Simpson	Health Services Research
04/13/17	Joe Selby	Patient-Centered Outcomes Research Institute
11/03/16	Jeffrey Balser	Bringing Precision Medicine to Populations
10/20/16	Student Symposium	Redesigning Inter-Professional Education for Health Professions
03/11/16	Eugene Washington	Academic Health Centers & The Health of Their Communities



Symposia

“US Healthcare: What’s Broken & How to Fix It”

30 symposia, 185 speakers, 70 institutions, 32 schools/depts

Date	Keynote Speaker	Symposium Topic
04/02/15	Glen Steele	Information Application: Creating Value in Healthcare
02/24/15	Leonard Schlesinger	Service Delivery: Implications for U.S. Healthcare
11/19/14	Student Symposium	Adapting to Recent Changes in the Healthcare Landscape
10/20/14	Stephen Klasko	Transformation vs. Reform: Reinventing Healthcare is Possible
03/25/14	James Madera	The Evolving Patient-Physician Interface
02/06/14	Steven Lipstein	Teaching Hospitals & Health Services Research
10/29/13	Mark Keroack	Quality & Integrated Systems of Care
10/09/13	Student Symposium	Student Perspectives: Problems & Solutions in U.S. Healthcare
09/17/13	Catherine Gillis	Best Practices Supporting Interdisciplinary Innovation at Academic Health Centers
02/19/13	Robert Dittus	New Paradigms of Health Services Research
12/04/12	Michael Klag	Social Determinants of Health & Disease
09/05/12	Glen Steele	New Models of Delivery & Payment
04/11/12	James Madera	Health Policy & The Future Physician
02/01/12	Steven Lipstein	U.S. Healthcare: What's Broken & How to Fix It
04/02/15	Glen Steele	Information Application: Creating Value in Healthcare



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AAMC Learning Health Systems

Visits to Emory, EHC, GA Tech et al

- Duke: Center for Learning Health Care (DCRI)
- MCW: Office of Joint Clinical Quality; Institute for Health and Society; CTSA
- UAB: Center for Outcomes and Effectiveness Research and Education; Office of Quality Management
- U Wisconsin: Health Innovation Program; Office of Quality, Safety, and Innovation; CTSA
- MedStar Health Research Institute

Visits by Emory

- Vanderbilt: Community Review Board, Meharry-Vanderbilt Alliance (Esper et al)
- U Chicago: Hospitalist Scholars Program (Gartland et al)
- Loyola: Clinical Research Database (Tejedor et al)



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MSCS 595 Course

Health Services Research

Category	Session Topic	Lecture Topic
General	Introduction, Funding	Definitions, T1-T4
General	Study Design	Cohorts, Controls, Data bases, Statistics
Scope	Improving Outcomes	Quality, safety, satisfaction
Scope	Improving Outcomes	Quality improvement,
Scope	Improving Outcomes	Cost, Value
Scope	Improving Outcomes	Access, Utilization
Type	Comparative Effectiveness	Diagnostics, Therapeutics
Type	Technology	Assessing Devices, Using Informatics
Type	Delivery Models	Services, Payments
Type	Decision Support	Providers, Patients, Payers
Type	Population Studies	Demographic, Geographic
Factors	Policy	Regulatory, Economic, Compliance
Factors	Social Determinants	Education, poverty, Support systems
Future	Technology	Future Impact of New Technology
Future	Accelerating Best Practices	Implementation, Delivery Sciences



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Program Participants (>1,750 individuals from >50 Institutions)

Participants

Institutions

Students	828 (46%)
Faculty	438 (25%)
Staff	227 (14%)
Professional	82 (5%)
Admins	39 (2%)
Other	172 (10%)

Emory	1206 (68%)
GA Tech	146 (8%)
GSU	91 (5%)
CHOA	38 (2%)
MSM-Grady	25 (1%)
CDC	13 (1%)
Vanderbilt	12 (1%)
UGA	10 (1%)
Other	245 (14%)



HSR Information Central

<http://www.nlm.nih.gov/hsrinfo/>

Serving the Information Needs of the Health Services Research Community



Email Updates
Please enter your email address in the box below for updates.

HSR GENERAL RESOURCES

- [Data, Tools and Statistics](#)
- [HSR Social Media Resources](#)
- [Grants, Funding and Fellowships](#)
- [Education and Training](#)
- [Guidelines, Journals, Other Publications](#)
- [Key Organizations](#)
- [Legislation](#)
- [Meetings, Conferences and Webinars](#)
- [State and State/Local Resources](#)

HSR TOPICS

- [Aging Population Issues](#)
- [Behavioral and Mental Health](#)
- [Child Health Services Research](#)
- [Community Benefit / Community Health Needs Assessment](#)
- [Comparative Effectiveness Research \(CER\)](#)
- [Data Literacy & Management](#)
- [Dissemination and Implementation Science](#)
- [Domestic Violence](#)
- [Evaluation Resources for Assessing HIT Systems and HIT Implementation, Adoption and Use](#)
- [Evidence-Based Practice and Health Technology Assessment](#)
- [Health Care Reform, Health Economics, and Health Policy](#)
- [Health Disparities](#)
- [Health Informatics](#)
- [Health Literacy and Cultural Competence](#)
- [Privacy/Security and Research with Electronic Health Records](#)
- [Public Health Services and Systems Research](#)
- [Quality](#)
- [Rural Health](#)

[About HSRIC](#) | [FAQ](#) | [Suggestions?](#)

IN THE SPOTLIGHT

The World Health Organization's Alma-Ata Declaration of 1978: What Was It Then, Where Is It Now?

CURRENT HSR NEWS

- Oct 17, 2019**
[Reported Importance and Access to Health Care Providers Who Understand or Share Cultural Characteristics With Their Patients Among Adults, by Race and Ethnicity \(October 2019\)](#)
- Oct 17, 2019**
[A Progress Report on States' Use of Data and Evidence](#)
- Oct 17, 2019**
[Oploid And Illit Drug Use Among The Hispanic/Latino Populations](#)

[More News](#)

NICHSR ONESEARCH

One website to search them all:
HSRProj, HSRR, HSRIC, PHPartners



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Health Services Research Federal Funding Opportunities

National Institutes of Health

Agency for Healthcare Research & Quality

Patient-Centered Outcomes Research Institute

CMS: Center for Medicare Medicaid Innovation

Centers for Disease Control

Health Resources & Services Administration

Veterans Administration HSR&D

US Department Of Defense

Environmental Protection Agency



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<http://www.grants.gov/>

The screenshot shows the Grants.gov search results page. At the top, there is a navigation bar with 'HOME', 'LEARN GRANTS', 'SEARCH GRANTS', 'APPLICANTS', 'GRANTORS', 'SYSTEM-TO-SYSTEM', 'FORMS', 'CONNECT', and 'SUPPORT'. The search bar contains 'Grant Opportunities' and 'Enter Keyword...'. The search results are displayed in a table with columns: Opportunity Number, Opportunity Title, Agency, Opportunity Status, Posted Date, and Close Date. The results are sorted by Relevance (Descending) and show 1-25 of 2193 matching results. The first few results include PAR-18-203, PA-17-007, PAR-17-264, PA-18-793, PA-18-795, PA-16-422, PA-18-774, PA-18-765, PAR-18-428, PAR-18-429, 7200AA19APS00002, PA-18-404, PA-18-403, and PA-17-481.

GRANTS.GOV™
FIND. APPLY. SUCCEED.™

SEARCH: Grant Opportunities | Enter Keyword... **GO**

HOME | LEARN GRANTS | **SEARCH GRANTS** | APPLICANTS | GRANTORS | SYSTEM-TO-SYSTEM | FORMS | CONNECT | SUPPORT

GRANTS.GOV Search Grants

SEARCH GRANTS

BASIC SEARCH CRITERIA:
Keyword(s): health service research
Opportunity Number:
CFDA:

OPPORTUNITY STATUS:
 Forecasted (194)
 Posted (1,999)
 Closed (2,396)
 Archived (45,411)

FUNDING INSTRUMENT TYPE:
 All Funding Instruments
 Cooperative Agreement (570)
 Grant (1,716)
 Other (68)
 Procurement Contract (43)

ELIGIBILITY:
 All Eligibilities
 City or township governments (1,210)
 County governments (1,217)
 For profit organizations other than small businesses (1,195)
 Independent school districts (1,182)

CATEGORY:
 All Categories
 Agriculture (26)
 Arts (see 'Cultural Affairs' in CFDA) (13)
 Business and Commerce (6)
 Community Development (21)
 Consumer Protection (5)

AGENCY:
 All Agencies
 All Agency for International Development (USAID) (92)

SEARCH FILTERS:
SORT BY: Relevance (Descending) | Update Sort
DATE RANGE: All Available | Update Date Range

Search Tips | Export Detailed Data | Save Search

1 - 25 OF 2193 MATCHING RESULTS: Previous 1 2 3 4 5 6 ... 88 Next

Opportunity Number	Opportunity Title	Agency	Opportunity Status	Posted Date	Close Date
PAR-18-203	Leveraging Electronic Health Records for Alcohol Services Research (R21/R33 Clinical Trial Optional)	HHS-NIH11	Posted	11/17/2017	05/07/2020
PA-17-007	Large Health Services Research Demonstration and Dissemination Projects for Prevention of Healthcare-Associated Infections (R18)	HHS-AHRQ	Posted	10/13/2016	01/25/2021
PAR-17-264	Innovative Mental Health Services Research Not Involving Clinical Trials (R01)	HHS-NIH11	Posted	04/28/2017	09/07/2020
PA-18-793	AHRQ Health Services Research Demonstration and Dissemination Grants (R18)	HHS-AHRQ	Posted	05/21/2018	01/27/2021
PA-18-795	AHRQ Health Services Research Projects (R01)	HHS-AHRQ	Posted	05/21/2018	07/05/2021
PA-16-422	Large Health Services Research Demonstration and Dissemination Projects for Combating Antibiotic-Resistant Bacteria (CARB)(R18)	HHS-AHRQ	Posted	09/06/2016	10/30/2021
PA-18-774	Pilot Health Services and Economic Research on the Treatment of Drug, Alcohol, and Tobacco Use Disorders (R34 Clinical Trial Optional)	HHS-NIH11	Posted	05/09/2018	05/07/2021
PA-18-765	AHRQ Health Services Research Dissertation Program (R36)	HHS-AHRQ	Posted	05/02/2018	05/01/2023
PAR-18-428	Initiation of a Mental Health Family Navigator Model to Promote Early Access, Engagement and Coordination of Needed Mental Health Services for Children and Adolescents (R01- Clinical Trial Required)	HHS-NIH11	Posted	12/05/2017	01/07/2021
PAR-18-429	Pilot Studies to Test the Initiation of a Mental Health, Family Navigator Model to Promote Early Access, Engagement and Coordination of needed Mental Health Services for Children and Adolescents (R34-Clinical Trial Required)	HHS-NIH11	Posted	12/05/2017	01/07/2021
7200AA19APS00002	MOMENTUM (Moving Integrated, Quality Maternal, Newborn, and Child Health and Family Planning and Reproductive Health Services to Scale)	USAID	Posted	04/22/2019	09/30/2025
PA-18-404	Ruth L. Kirschstein National Research Service Award (NRSA) Short-Term Institutional Research Training Grant (Parent T35)	HHS-NIH11	Posted	11/21/2017	01/07/2021
PA-18-403	Ruth L. Kirschstein National Research Service Award (NRSA) Institutional Research Training Grant (Parent T32)	HHS-NIH11	Posted	11/21/2017	01/07/2021
PA-17-481	Agency for Healthcare Research and Quality (AHRQ)-sponsored National Research Service Award (NRSA) Individual Postdoctoral Fellowship (F32)	HHS-AHRQ	Posted	09/12/2017	08/08/2022



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Healthcare Innovation Program

- An independent research institute established by Congress to produce evidence-based information to improve patient and provider health care decisions.
- Research Agenda and Methodology developed with public input: approved May, November 2012
- Contract Research to support PCORI mission
- Funded through PCOR Trust Fund: general fund (\$150M/yr) + Insurance Fee (\$500M/yr)
- PFAs announced 3x/year on 5 National Priorities



CMS Innovation Center (CMMI)

Center for Medicare & Medicaid Innovation

- Created under ACA for CMS to “test innovative... delivery models..”
- Budget: \$10 Billion over FY 2012-19
- Over 15 programs to develop, implement new ideas to deliver better health, improved care, and lower costs
- Up to **\$1B/Yr** for Health Care Innovation Awards



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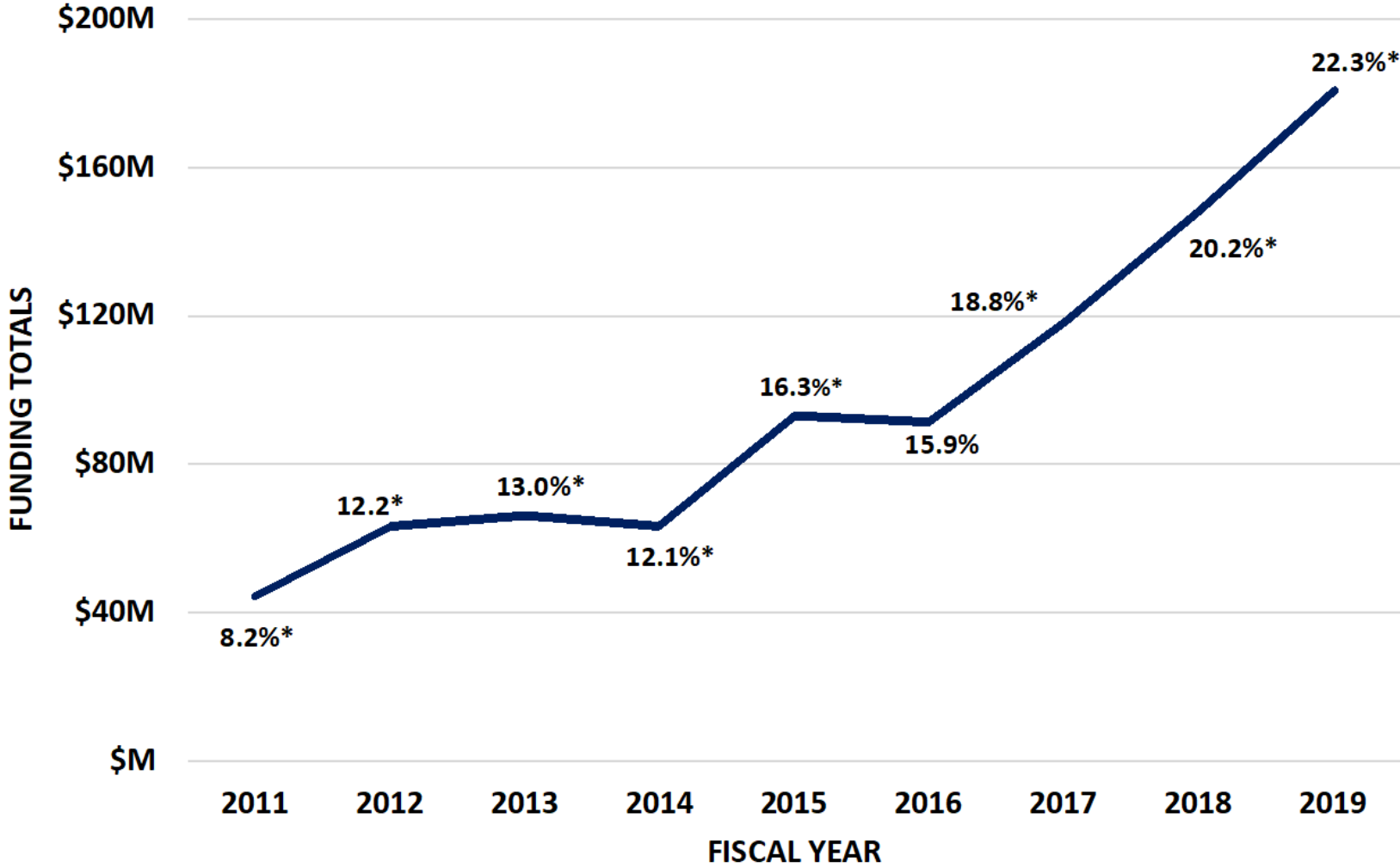
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Emory HSR Funding

Project Category	Funding Totals
Disease Prevention & Patient Management	\$57,312,980 (32%)
Safety & Risks	\$46,623,753 (26%)
Education & Communication	\$27,722,292 (15%)
Social Determinants & Disparities	\$20,467,414 (11%)
Outcomes & Evaluations	\$13,928,461 (8%)
Technology & Informatics	\$10,806,985 (6%)
Access to Healthcare	\$2,380,637 (1%)
Delivery & Payment Models	\$863,735 (0.5%)
Economic Values & Models	\$795,618 (0.5%)
<i>TOTAL</i>	<i>\$180,901,875</i>

Sponsoring Agency	Total Funding
NIH	\$68,056,924 (38%)
Bill & Melinda Gates Foundation	\$30,312,076 (17%)
Centers for Disease Control & Prevention	\$9,973,729 (6%)
Health Resources & Services Admin	\$5,895,322 (3%)
Georgia Department of Human Services	\$4,020,000 (2%)
Georgia Department of Public Health	\$3,310,646 (2%)
Agency for Healthcare Research & Quality	\$1,443,934 (1%)
Other	\$52,462,342 (29%)
<i>TOTAL</i>	<i>\$180,901,875</i>

Emory HSR Funding: FY11-19





Goals

Increase Quality/Scope/Scale

- Enhance current research, education, service programs
- Identify/stimulate new programs
- Expand faculty, student, staff interactions
- Facilitate access to information/collaborators for grant submissions, educational offerings, new programs

Increase Recognition/Impact

- Locally - speakers, symposia, projects, seed grants
- Nationally, globally
 - external advisory board
 - website, social media, communications

