Massachusetts General Hospital
Founding Member, Mass General Brigham

MGH INSTITUTE
OF HEALTH PROFESSIONS
School of Healthcare Leadership

MONGAN INSTITUTE

Healthcare Data & Delivery Science

Certificate Program

The Healthcare Data & Delivery Science Certificate Program, hosted by the Mongan Institute at Mass General Brigham, equips clinician scientists and early career researchers with fundamental and practical skills in healthcare data and delivery science. This hybrid flexible program for busy clinician scientists and researchers consists of virtual lectures, interactive discussion groups, and skill-building workshops.

Core Curriculum

Essential Research Skills for Success
An overview of key research skills: developing a good research question and effective specific aims; working with biostatisticians and mentors, acquiring research funding, and work-life balance.

Health Equity Science
Major topics, methods, and strategies for conducting research on health disparities, engaging diverse research populations, and advancing health equity.

Quality Improvement Science & Learning Health Systems Science
Principles, practice, and tools used in quality improvement science and learning health system science.

User-Centered Design & AI in Healthcare Data & Delivery Science
Fundamentals and uses of user-centered design and artificial intelligence in healthcare data and delivery science.

Concentration: Observational Research & Data Science or Intervention & Implementation Science
Scholars select an intensive course in observational research & data science or intervention pragmatic trials & implementation research and develop their own research project for a final capstone presentation.

Biostatistics Fundamentals Elective
This elective provides an introductory overview of fundamentals in biostatistics and the use of R in data analysis provided by the MGH Institute of Health Professions.

The Program

This accredited 6-month Certificate Program provides lectures and interactive learning sessions covering critical research skills in healthcare data science, health equity science, and health care delivery science.

Designed for busy clinicians and full-time researchers, the program is delivered through a combination of weekly pre-recorded lectures with embedded exercises (able to be viewed when convenient) and weekly virtual interactive, faculty-led learning sessions, along with a series of skill-based workshops.

This hands-on curriculum includes methods in:

- Intervention design, pragmatic intervention trials, and implementation science
- Observational and large data set research
- Equity research in healthcare delivery
- Quality improvement research and learning health systems science
- Using user-centered design and AI in healthcare research

The Faculty

Harvard Medical School Faculty who are national and international experts conducting externally funded research in population and healthcare delivery science spanning observational research to intervention and implementation research and a broad array of clinical specialties, health conditions, and health inequities.

The Scholars

Scholars include both clinician and full-time early career investigators with MDs, Masters Degrees and PhD. The 2024-2025 cohort consisted of 28 scholars from 9 institutions and 15 different clinical specialties with 71% at the Fellow, Instructor, or Assistant Professor level, and 79% MDs and/or PhDs.

"This program has significantly enhanced my capabilities, and I am excited about the opportunity to put these skills into impactful use."
- 2024-2025 Certificate Scholar

Key Details

- Six Month Program from October to March
- Tuition: $10,500
  (*with Biostatistics Elective: $11,500*)
- Accredited through the MGH Institute of Health Professions for 6 non-degree credits in the Department of Health Professions Education in the School of Health Care Leadership
- Check local employee assistance program for reimbursement eligibility

The Mongan Institute

The Mongan Institute is dedicated to achieving health equity and improving the lives of people with complex health needs through research and training in population and healthcare delivery team science.

For more information see:
Mongan Institute 2024 Health Equity Research Report
www.MonganInstitute.org

Application

The application for the 2025-2026 certificate program is now open!
Applications will be reviewed on a rolling basis through March 21, 2025.
The application can be found by clicking here or under the "Application" tab on the program website.

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