



Global Clinical Scholars Research Training Program

*Advanced training in methods and
conduct of clinical reserach*



HARVARD
MEDICAL SCHOOL

Postgraduate
Medical Education

APPLY AT [HMS.HARVARD.EDU/GCSRT](https://hms.harvard.edu/gcsrt)

LETTER FROM DEAN

WELCOME TO HARVARD MEDICAL SCHOOL POSTGRADUATE MEDICAL EDUCATION

In the rapidly evolving field of health science, you need an authoritative partner that can help you keep pace with medicine's latest trends and developments. At Harvard Medical School (HMS), we set the standard for postgraduate academic excellence, while meeting the needs of the global health care community, through our Postgraduate Medical Education (PGME) programs.

Designed for clinicians and clinician-scientists in both the U.S. and abroad, our Global Clinical Scholar Research Training (GCSRT) program provides advanced training in health care research methods. Using a blended-learning model that incorporates online tools, in-person seminars, and dynamic workshops, the curriculum is focused on enhancing your ability at every stage of the research process, from writing grant proposals and launching new projects to analyzing, interpreting, and presenting your results.

We invite you to join our world-renowned network of physician-scientists and researchers, as we reinvent the way that physicians, clinicians, and clinician-scientists learn. We hope you will join us for this exceptional educational experience.

Sincerely,

David Roberts, MD
Dean for External Education
Harvard Medical School

Ajay K. Singh, MBBS, FRCP (UK), MBA
Senior Associate Dean
Postgraduate Medical Education
Harvard Medical School



PROGRAM OBJECTIVES

In the GCSRT program, you will explore the latest advancements and best practices in clinical research—improving your ability drive health care innovation and better outcomes. Throughout the program, you will learn alongside a talented group of peers from around the world, collaborating to create a deeper and more enduring understanding of the topics.

By attending GCSRT, you will enhance your ability to:

1. Design and perform observational and experimental clinical research.
2. Analyze, interpret, and present clinical research data.
3. Write and revise successful grant proposals.
4. Lead clinical teams across a variety of health care settings.

THE PROGRAM



A one-year program, GCSRT combines online learning with three intensive, residential workshops, which are designed to offer a mix of didactic and practical exercises. In addition, you will participate in five to six interactive webinars per month—including review sessions by faculty and special seminars from leading experts—and have access to approximately 85 prerecorded online lectures.

Through our cohort model, you can choose the residential workshops that are most convenient for you.

WORKSHOP DATES



BOSTON COHORT

Workshop 1: Jun. 13–16, 2019
Workshop 2: Dec. 2–5, 2019



LONDON COHORT

Workshop 1: Jun. 22–25, 2019
Workshop 2: Dec. 14–17, 2019



SHANGHAI COHORT

Workshop 1: Jun. 20–23, 2019
Workshop 2: Dec. 9–12, 2019

WORKSHOP 3: MAY 29 - JUNE 2, 2020 | GRADUATION: JUNE 2, 2020 (BOSTON)

Upon fulfilling GCSRT program requirements, you will receive a Certificate of Completion. You will also become an Associate Member of the Harvard Medical School and Harvard University Alumni Association, and will be invited to attend GCSRT program alumni events throughout the year.



WHO'S RIGHT FOR THIS PROGRAM

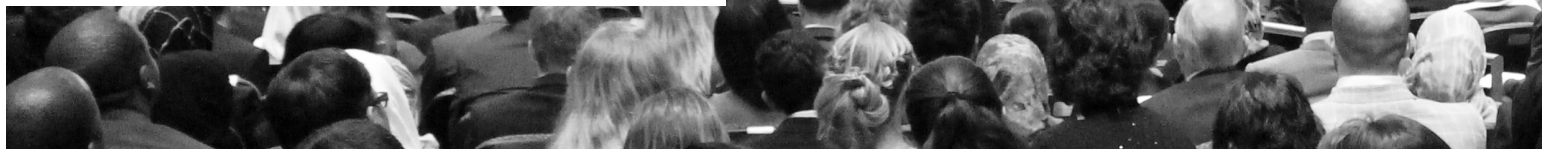
This program is designed for clinicians with an MD, PhD, DMD, DDS, PharmD, DNP, or equivalent degrees. In most cases, qualified candidates will have prior clinical research or proposal preparation experience, and have work that has appeared in at least one publication.

GCSRT is truly a global program: The latest cohort of students represented 44 countries including the U.S., Canada, U.K., India, Italy, and many more. Past student participants included chief physicians, directors, fellows, scientists and specialists. Most students have authored or contributed to research publications. Clinicians, residents, and lecturers who demonstrated strong career interest in clinical research on their application materials were also admitted to the program.

GCSRT was the missing piece to compliment my experiences. It was the right way to get the knowledge and experience I needed to do the kind of job I wanted to do in Clinical Development. This has opened up my eyes to not only pharma research but academic research and has created infinite possibilities.

Caryn Lobel M.D.
New York City, New York, USA

CURRICULUM



The program curriculum comprises five to six interactive webinars per month, as well as 85 prerecorded online lectures. In addition to the core coursework, you can personalize your experience by choosing electives and a concentration that align with your interests.

The program's core curriculum falls under three primary themes:

CLINICAL LEADERSHIP IN MEDICINE

Develop your leadership abilities and acquire the skills and frameworks you need to:

- Manage a health care team
- Pilot successful collaborations within and outside your group
- Navigate the complexities of the institution
- Manage conflicts that arise in high-stakes environment

ADVANCED STATISTICAL TOOLS

Learn to utilize Stata statistical software and other advanced computing methods for:

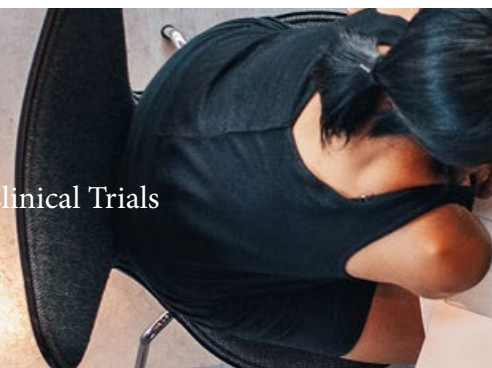
- Analyzing longitudinal data
- Modeling regression and survival analysis
- Representing polynomial trends for time (e.g. linear or quadratic) and linear mixed-effects models
- Identifying missing data in longitudinal and cross-sectional analysis
- Generating polished figures and tables

CONCENTRATIONS

Clinical Trials
Epidemiology

ELECTIVES

Drug Development
Secondary Analysis of Clinical Trials
Survey Design





RESEARCH ETHICS

Examine common challenges in the conduct and review of biomedical human subjects research, including:

- Evolution of ethical codes and regulations
- Responsibility of physicians as investigators
- Preparation of research protocol application and informed consent documents
- Challenges of conducting research involving children and adolescents

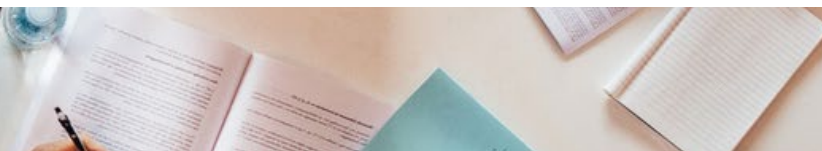
CAPSTONE PROJECTS

For the GCSRT capstone, you will write a formal proposal based on an original research question. Faculty and peers will provide feedback on your work throughout the process. Once completed, the projects will be ranked by a faculty panel, and the top three proposals will be presented at the final workshop in Boston.



EXAMINATIONS

To demonstrate proficiency, you must pass two multiple-choice question midterm exams.



FACULTY

The GCSRT program is led by distinguished senior faculty members from Harvard Medical School, Harvard T.H. Chan School of Public Health, Harvard Business School, and other prominent academic institutions. Each faculty member is an expert in their field and draws on the latest literature, as well as their hands-on expertise, to address common challenges encountered in clinical research.

PROGRAM DIRECTORS

Ajay K. Singh, MBBS, FRCP, MBA

Senior Associate Dean, Postgraduate Medical Education

Director, Master in Medical Sciences in Clinical Investigation Program

Dr. Singh is the director of the Master in Medical Sciences in Clinical Investigation program, head of Postgraduate Medical Education at the Brigham and Women's Hospital, and Executive Director of the Dubai Harvard Foundation of Medical Research. He has led groundbreaking studies in anemia of kidney disease, and is the author of over 150 original contributions and review articles.

Kenneth B. Christopher, MD

Associate Director, GCSRT Program

Assistant Professor, Harvard Medical School

Dr. Christopher is the Director of the Nathan E. Hellman Memorial Laboratory and Assistant Program Director of the Internal Medicine Residency Training Program at the Brigham and Women's Hospital. A widely published author and international speaker, he is a two-time winner of the Annual Scientific Award from the Society of Critical Care Medicine.

Ebrahim Barkoudah, MD, MPH

Associate Director, GCSRT Program

Instructor in Medicine, Harvard Medical School

Dr. Barkoudah is the Medical Director at Brigham and Women's Hospital. An esteemed internist and researcher, his work is focused on quality improvement and clinical innovation, as well as clinical research outcomes and clinical trials of therapeutic interventions.

WORKSHOP FACULTY

Jerome Avorn, MD
Professor of Medicine, Harvard Medical School
Chief, Division of
Pharmacoepidemiology and
Pharmacoeconomics
Brigham and Women's Hospital

Julie Buring, ScD
Professor of Medicine, Harvard Medical School
Professor of Epidemiology, Harvard T.H. Chan School of Public Health

Niteesh Choudhry, MD, PhD
Professor of Medicine, Harvard Medical School
Associate Physician, Division of Pharmacoepidemiology and Pharmacoeconomics and the Hospitalist Program, Brigham and Women's Hospital

Brian Claggett, PhD
Assistant Professor of Medicine, Harvard Medical School
Chief Statistician, Brigham and Women's Hospital

Tim Clayton, MSc
Associate Professor, Department of Medical Statistics
London School of Hygiene & Tropical Medicine

Srikant Datar, PhD, AM, MS
Arthur Lowes Dickinson Professor of Business Administration
Senior Associate Dean for University Affairs
Harvard Business School

Ganmaa Davaasambuu, MD, PhD
Assistant Professor of Medicine, Harvard Medical School
Assistant Professor, Harvard T.H. Chan School of Public Health

Jeffrey Drazen, MD
Distinguished Parker B. Francis Professor of Medicine, Harvard Medical School
Pulmonary Division, Brigham and Women's Hospital
Editor-in-Chief, New England Journal of Medicine

Vanessa Garcia-Larsen, PhD
Assistant Professor
Johns Hopkins Bloomberg School of Public Health

Francesca Gino, PhD, MS
Tandon Family Professor of Business Administration
Harvard Business School

Miguel Hernán, MD, MPH, ScM, DrPH
Professor, Harvard T.H. Chan School of Public Health
Faculty, Harvard-MIT Division of Health Science and Technology

Susan Kornetsky, MPH
Director of Clinical Research Compliance
Boston Children's Hospital

Eldrin Foster Lewis, MD, MPH
Associate Professor of Medicine, Harvard Medical School
Director of the Cardiovascular Clerkship Program, Brigham and Women's Hospital

Finnian Mc Causland, MBBCh, MMSc, FRCPI, PG CertMedEd
Assistant Professor
Harvard Medical School

Melvyn Menezes, PhD, MBA
Associate Professor
Boston University Questrom School of Business

FACULTY

WORKSHOP FACULTY CONT.

Sagar Nigwekar, MBBS
Assistant Professor of Medicine,
Harvard Medical School
Assistant Physician, Massachusetts
General Hospital

Julie Paik, MD, ScD, MPH
Assistant Professor of Medicine
Harvard Medical School

Stuart Pocock, PhD
Professor of Medical Statistics at the
London School of Hygiene and Tropical
Medicine
University of London

Benjamin Raby, MD, MPH
Associate Professor of Medicine,
Harvard Medical School
Associate Physician, Brigham and
Women's Hospital

Jamie Roberston, PhD, MPH
Instructor in Emergency Medicine
Harvard Medical School

Amil Shah, MD, MPH
Assistant Professor of Medicine,
Harvard Medical School
Cardiovascular Medicine Specialist,
Brigham and Women's Hospital

Aneesh Singhal, MD
Vice Chair, Department of Neurology
Massachusetts General Hospital

Djøra Soeteman, PhD
Research Scientist, Center for Health
Decision Science
Harvard T.H. Chan School of Public
Health

Caren G. Solomon, MD, MPH
Associate Professor of Medicine,
Harvard Medical School
Associate Physician, Brigham and
Women's Hospital
Deputy Editor, New England Journal of
Medicine

Thomas Trikalinos, MD, PhD
Associate Professor, Health Services,
Policy & Practice and Director
Center for Evidence-Based Medicine
Brown University School of Public
Health

Robert Truog, MD
Frances Glessner Lee Professor of
Medical Ethics, Anaesthesia and
Pediatrics
Harvard Medical School

David Wypij, PhD
Associate Professor of Pediatrics,
Harvard Medical School
Senior Lecturer on Biostatistics,
Harvard T.H. Chan School of Public
Health
Director, Statistics and Data
Coordinating Center, Department of
Cardiology, Boston
Children's Hospital

Sushrut Waikar, MD, MPH
Associate Professor of Medicine,
Harvard Medical School
Director of Renal Translational
Research, Brigham and Women's
Hospital

ONLINE CURRICULUM FACULTY

Heather Baer, ScD
Assistant Professor of Medicine,
Harvard Medical School
Assistant Professor of Epidemiology,
Harvard T.H. Chan School of Public
Health
Associate Epidemiologist, Brigham and
Women's Hospital

Ethan Balk, MD, MPH
Associate Professor
Brown University School of Public
Health

Andrew Beam, PhD
Research Associate in Biomedical
Informatics
Harvard Medical School

Brian Claggett, PhD
Assistant Professor of Medicine,
Harvard Medical School
Chief Statistician, Brigham and
Women's Hospital

Garrett Fitzmaurice, ScD
Professor of Psychiatry (Biostatistics),
Harvard Medical School
Professor of Biostatistics, Harvard T.H.
Chan School of Public Health
Director of Laboratory for Psychiatric
Biostatistics, McLean Hospital

Chase Harrison, PhD
Associate Director, Harvard Program
on Survey Research, Harvard University
Preceptor in Survey Research,
Faculty of Arts and Sciences, Harvard
University

Brian Healy, PhD
Assistant Professor of Neurology,
Harvard Medical School
Assistant Professor of Biostatistics,
Harvard T.H. Chan School of Public
Health

S. David Kimball, PhD
Interim Senior Vice President, Office of
Research and Economic Development
Vice President, Innovation and
Research Commercialization
Rutgers University

Susan Kornetsky, MPH
Director of Clinical Research
Compliance
Boston Children's Hospital

Maralee McVean, PhD
Vice President, Pharmacology and
Toxicology Services
Pre-Clinical Research Services

Jessica Paulus, ScD
Assistant Professor of Medicine, Tufts
University
Investigator, Institute for Clinical
Research and Health Studies

Geoffrey Poitras, PhD
Professor of Finance
Simon Fraser University

Paraneedharan Ramachandran, MD
Medical Safety Officer, Immunology
Janssen Pharmaceutical Companies of
Johnson & Johnson

Rebecca Rolland, EdD
Adjunct Lecturer on Education
Harvard Graduate School of Education

Petra Sevcikova, PhD
Senior Research Fellow, Health Systems
Blizard Institute – Barts and The
London School of Medicine and
Dentistry

R. Christopher Sheldrick, PhD
Associate Professor
Boston University School of Public
Health

FACULTY

ONLINE CURRICULUM FACULTY

Priya Singhal, MD, MPH
Global Head and Senior Vice President,
Safety and Benefit Risk Management
Biogen, Inc.

Djøra Soeteman, PhD
Research Scientist, Center for Health
Decision Science
Harvard T.H. Chan School of Public
Health

Mark Taubert, FRCP, MSc
Clinical Director/Consultant in
Palliative Medicine
Honorary Senior Lecturer
Cardiff University

Adrienne Tierney, EdD
Preceptor in Expository Writing
Harvard University

Katrin Uhlig, MD, MS
Senior Medical Director, Agios
Pharmaceuticals
Adjunct Associate Professor, Tufts
University School of Medicine

David Wypij, PhD
Associate Professor of Pediatrics,
Harvard Medical School
Senior Lecturer on Biostatistics,
Harvard T.H. Chan School of Public
Health
Director, Statistics and Data
Coordinating Center, Department of
Cardiology, Boston
Children's Hospital



ADMISSIONS

APPLICATION DEADLINES

Early Application Deadline: April 17, 2019

Scholarship Application Deadline: April 17, 2019

Early Deposit Deadline: May 3, 2019

Students who submit applications by the Early Admission Deadline and submit a deposit by the Early Deposit deadline are eligible for the reduced tuition rate of \$11,900 (USD).

The tuition for completed applications received after April 17, 2019, is \$12,900 (USD).

Application Closing Date: May 17, 2019

Once you are accepted to the program, payment is required either in full or through a payment schedule. A 10 percent deposit by the deposit deadline date secures your place in the program.

Tuition includes facility fees for the three workshops and access to all four lecture modules (summer, fall, winter, and spring). Fees do not include supplemental books, supplies, software, or workshop travel and accommodation expenses.

ADDITIONAL APPLICATION AND REGISTRATION INFORMATION IS
AVAILABLE ONLINE AT: **HMS.HARVARD.EDU/GCSRT**

TESTIMONIALS



GCSRT presents us with unique challenges. We collaborate not just across the continent, but the world. We span from San Francisco to the United Arab Emirates, from the UK to Trinidad. However, regardless of our locales, we all face the same challenges as physicians. This state-of-the-art education will best prepare me for the challenges I will face as the world becomes an increasingly smaller place.

Sunil Saith, MD
Keck School of Medicine
University of Southern California
Los Angeles, California

Online classes open up unique opportunities for individuals in my situation. Most participants have full-time jobs and busy careers. I am very happy to be working with other members in my team. Lifelong learning is crucial to stay abreast in the everchanging field of medical science. This course is helping me and other participants obtain the tools to become better clinicians and researchers.

Lubna Mirza, MD
Norman Regional Hospital
Norman, Oklahoma



The first workshop in London of the 2013-14 GCSRT program was extraordinary. The successful three-day collaboration of these accomplished health professionals from so many countries, ages and backgrounds, working together in teams through the application of concepts and the designing of studies, was matched only by their clear enthusiasm for the process. As a faculty member, it was without doubt one of my most enjoyable and rewarding teaching experiences.

“

Julie Buring, ScD, GCSRT Program Faculty

Professor of Medicine

Harvard Medical School

Professor of Epidemiology

Harvard School of Public Health

Boston, Massachusetts



GLOBAL CLINICAL SCHOLAR RESEARCH TRAINING PROGRAM

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