


Weill Cornell Medical College

# Global Health

RESEARCH FELLOWSHIP

A female doctor with her hair in braids, wearing a white lab coat and a stethoscope, is examining a young child's chest. The doctor is focused on the task, and the child is looking towards the camera. The background shows a clinical setting with medical equipment and a blue chair.

This **innovative** fellowship responds to the urgent need for clinician scientists in global health.

Dr. Adolphine Hokororo, Chief of Pediatrics at Weill Bugando Tanzania and graduate of Weill Cornell MSc program.





# Mission

The mission of the **Global Health Research Fellowship** is to train physicians for academic careers in global health research. The three-year fellowship includes field-based research, courses in research methods, and teaching and clinical service at Weill Cornell New York-Presbyterian Hospital.



# Background

Global health is a multidisciplinary field of service, research, and training that seeks to improve the health of individuals and populations to achieve worldwide health equity, especially for the resource-poor. The career pathway for academic global health has historically begun with training in internal medicine followed by training in infectious diseases. However, over the past decade there has been a heightened recognition of the need for clinician-scientists in global health, reflecting the rise of non-communicable diseases in resource-limited settings and the importance of primary care for sustainable health improvements.

The Fellowship is sponsored by the Weill Cornell Department of Medicine, which includes the Center for Global Health, the Division of Clinical Epidemiology and Evaluative Sciences Research, and the Division of Hospital Medicine.

The Center for Global health was founded in 2009 and has a long-standing history of NIH-funded research with 15 New York and internationally-based faculty in Haiti, Tanzania, Brazil and India. The Division of Clinical Epidemiology and Evaluative Sciences Research has trained over 77 Masters degree students, with over 30 students currently enrolled as of June 2014. The majority (79%) of graduates are working as academic faculty, with an additional 14% working in applied research settings. The Division of Hospital Medicine, also established in 2009, has grown rapidly and includes 50 faculty, with over 20% having experience in global health and over 50% with subspecialty training in critical care, emergency medicine, infectious diseases, medical informatics, nephrology, pain management, and quality improvement.



This unique fellowship addresses the **global** needs of poor communities including primary care, non-communicable diseases, and maternal and child health.





Dr. Jennifer Downs,  
Weill Bugando, Tanzania



Medical record charting, GHESKIO  
Clinic in Port-au-Prince Haiti



Chest x-ray of patient with  
tuberculosis in Tanzania



Laboratory slide in process

While several academic medical centers offer **global health fellowships**, none provides this amount of field work and research training.



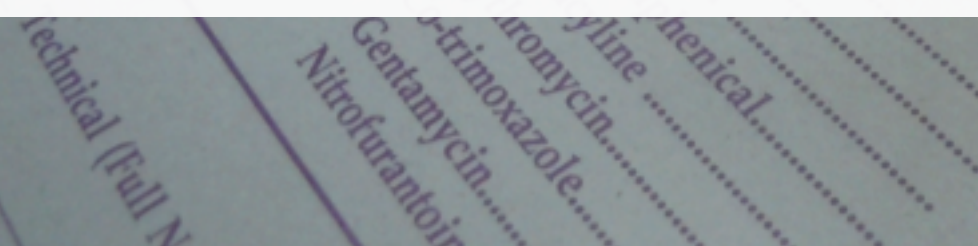
## Fellowship Innovation

1. Tailored for post-residency graduates in internal medicine, emergency medicine, or other training programs
2. Extensive field-based research in Weill Cornell programs in Haiti, Tanzania, Brazil or India
3. Masters degree in Clinical Epidemiology and Health Services Research
4. Intensive faculty mentorship with New York and international Weill Cornell faculty

While several academic medical centers offer global health fellowships, none provides this amount of field work and research training, which is essential for a successful academic career as a clinician investigator in translational, clinical, or implementation science in global health.

## Fellowship Objectives

1. Deepen trainees understanding of health care delivery systems, epidemiology of disease, and interventions to improve health in resource-poor settings
2. Provide trainees with the skills to design and conduct patient-oriented research in global health
3. Mentor trainees in the practice and teaching of evidence-based clinical medicine in New York and abroad
4. Prepare trainees for NIH K-award submission by the end of the program





# Fellowship Training

## 1. Field-Based Research and Mentorship

Trainees will conduct research abroad in Haiti, Tanzania, India or Brazil for a minimum of 20 months over the three-year program (Table 1). This amount of field research time is unique to this program and is essential for understanding the local health context, establishing relationships with field-based clinical and research colleagues, and developing preliminary data for a future NIH grant submission. The research may be translational, clinical, or implementation. Trainees will be assigned primary mentors among the faculty in the Center for Global Health, which has over 15 faculty based in New York and at these partner programs. Each trainee will be paired with a group of secondary mentors within the Division of Clinical Epidemiology and Evaluative Sciences Research and other divisions or institutions depending on the proposed project. The trainees will meet weekly with their primary mentor, quarterly with their secondary mentors as well as interact as a group on a quarterly basis to foster research collaboration and skill building. Institutional support will be provided for travel and accommodations, a research stipend, and language skills.

## 2. Masters in Science Clinical Epidemiology and Health Services Research

The program consists of didactic courses (Biostatistics I and II, Clinical Research Methods, Epidemiology, Advanced Epidemiology, Decision Analysis, Research Ethics, etc) and a mentored thesis project (published paper). This program employs a multidisciplinary model of mentorship and career development that has been successful over the past decade in training students who have subsequently assumed faculty positions and obtained independent peer-reviewed research support. A global health track was introduced in 2009 and has had 25 students enrolled from Brazil (6), Haiti (6), Tanzania (6), India (2), and the United States (5). Trainees take courses in New York and conduct their thesis research at international sites. These trainees have been supported through NIH Fogarty training grants, a NIAID T32 training grant, USAID, and private foundations.

## 3. Clinical and Teaching Service

Trainees will also be mentored by Weill Cornell faculty. The faculty currently provide the majority of medical student and residency teaching on inpatient wards and in the Emergency Department at Weill Cornell New York Presbyterian Hospital. Faculty also provide training in evidence-based medicine, bedside procedures, and quality improvement methods. Each trainee will be paired with a primary clinical mentor, who will provide mentorship on clinical care, teaching, and quality improvement methods.

**Table 1: Fellowship Timeline (flexible depending on trainee's prior experience and training)**

	Year 1	Year 2	Year 3	Total
<b>Field Research</b>	7 months	6 months	7 months	20 months (55%)
<b>MSc Courses</b>	2 months	3 months	1 months	5 months (14%)
<b>Clinical/Teaching</b>	2 months	2 months	2 months	6 months (17%)
<b>Flexible Time</b>	0 month	0 month	1 month	2 months (6%)
<b>Vacation</b>	1 month	1 month	1 month	3 months (8%)



# Fellowship Faculty



Daniel Fitzgerald, MD and Molly McNairy, MD, MSc Co-Directors, Global Health Research Fellowship

Drs. Daniel Fitzgerald, Molly McNairy, and Radhika Sundararajan will co-direct the program with a multidisciplinary faculty including Dr. Mary Charlson (Chief, Division of Clinical Epidemiology and Evaluative Sciences Research) and Dr. Arthur Evans (Chief, Division of Hospital Medicine). Dr. Fitzgerald lived in Haiti for a decade and directs research programs at GHESKIO and Weill Bugando, Tanzania. He serves as the Co-PI of the GHESKIO Clinical Trials Unit, Clinical Director of the Cornell-GHESKIO TB Research Unit and PI/CO-PI on six other research and training programs in Haiti and Tanzania.

Dr. McNairy is faculty in the Center for Global Health and the Division of Hospital Medicine. She has extensive field experience in health service delivery and clinical medicine in sub Saharan Africa. Her research focuses on implementation science of HIV prevention and treatment interventions in resource-limited settings.

Dr. Sundararajan directs the fellowship for Emergency Medicine; her research focuses on mixed-methods approaches to studying health behavior, and designing interventions for populations with low biomedical utilization.

A unique aspect of the Weill Cornell Global Health Fellowship is the participation of onsite faculty mentors at our international programs. For example, Weill Cornell Professor Dr. Jean Pape lives in Haiti, directs the GHESKIO program, and is a world expert in public health. Other research in Haiti includes translational research on multi-drug resistant tuberculosis, clinical trials on HIV, and implementation science on HIV models of care. Dr. Robert Peck conducts research on hypertension and chronic renal disease as part of the Tanzania research on non-communicable diseases. Dr. Jyoti Mathad's work focuses on maternal and child health in India. The onsite Weill Cornell faculty will facilitate the fellow's integration in programmatic work and research opportunities.

Examples of faculty in New York include: Dr. Warren Johnson, the Founding Director of the Center for Global Health, who conducts research in Brazil and Haiti; Dr. Mary Charlson who conducts research in chronic diseases and provides expertise in clinical epidemiology; Dr. Carol Mancuso who conducts research on asthma and autoimmune diseases and provides expertise in clinical trials, and Dr. Carla Boutin Foster who conducts qualitative research in Haiti and in disadvantaged populations in New York City and teaches community participatory research methods.

For additional faculty profiles, please see: <http://weill.cornell.edu/globalhealth/faculty-and-topics/>



# Apply

## Application Process

Eligible applicants are graduates of internal medicine, emergency medicine, or other residency training programs who express a commitment to become clinician-scientists focused on global health research (2 trainees/year). Applicants are encouraged to have prior global health experience. Applicants with Masters and/or PhD degrees or prior fellowships are also encouraged to apply, and the program can be adapted to provide them with more advanced training.

Please send the following to the Weill Cornell Global Health Research Fellowship ([ghrf@med.cornell.edu](mailto:ghrf@med.cornell.edu)).

1. Personal statement outlining your research interest, experience in global health, and career goals
2. Curriculum Vitae

## More Information

- **Weill Cornell Global Health Research Fellowship**  
[ghrf@med.cornell.edu](mailto:ghrf@med.cornell.edu)
- **WCMC Department of Medicine**  
<http://www.weillcornellmedicine.com/>
- **WCMC Center for Global Health**  
<http://www.weill.cornell.edu/globalhealth/>
- **WCMC Division of Clinical Epidemiology and Evaluative Sciences Research**  
[http://www.weillcornellmedicine.com/clinical\\_practices\\_and\\_divisions/general\\_internal\\_medicine/education.html](http://www.weillcornellmedicine.com/clinical_practices_and_divisions/general_internal_medicine/education.html)
- **WCMC Division of Hospital Medicine**  
[http://www.weillcornellmedicine.com/clinical\\_practices\\_and\\_divisions/hospital\\_medicine/faculty.html](http://www.weillcornellmedicine.com/clinical_practices_and_divisions/hospital_medicine/faculty.html)
- **GHESKIO, Haiti**  
<http://www.gheskio.org/wp/>
- **Weill Cornell Bugando Program, Tanzania**  
[http://weill.cornell.edu/globalhealth/major-initiatives/weill\\_cornell\\_program\\_in\\_bugando/](http://weill.cornell.edu/globalhealth/major-initiatives/weill_cornell_program_in_bugando/)







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