



**Weill Cornell  
Medicine**

# Global Health

RESEARCH FELLOWSHIP

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

This **innovative** fellowship responds to the urgent need for generalist 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 general internists 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 generalist 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 General Internal Medicine, which includes Hospital Medicine.

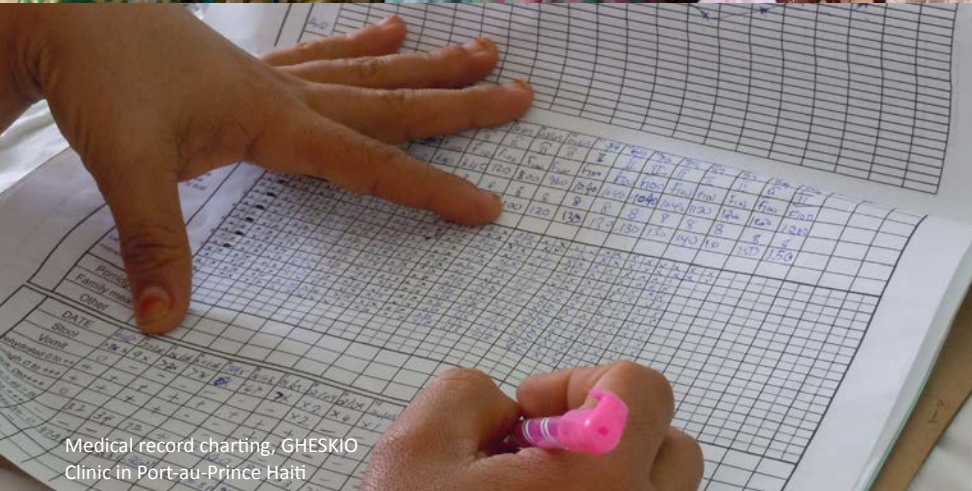
The Center for Global Health was founded in 2009 and has a long-standing history of NIH-funded research with 18 New York and internationally-based faculty in Haiti, Tanzania, Brazil and India. The Division of Clinical Epidemiology and Evaluative Sciences Research has trained over 165 Masters degree students, 28 of whom work in the Center for Global Health and at our international partner sites. Hospital Medicine, also established in 2009, has grown rapidly and includes 85 faculty, with over 35% 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.

A vibrant, densely packed hillside community in Haiti. The houses are built on a steep slope and are painted in a variety of bright colors, including red, yellow, blue, green, and pink. The buildings are multi-storied and closely packed together, with some having balconies and laundry hanging from lines. The background shows a lush green hillside with trees and a clear sky. The overall scene depicts a bustling, colorful urban environment.

This unique  
fellowship addresses  
the **global** needs of  
low-income 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

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



Chest x-ray of patient with  
tuberculosis in Tanzania



Laboratory slide in process

## Fellowship Innovation

1. Tailored for post-residency graduates in internal medicine
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 or other tailored research methods training
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 General Internal Medicine 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 of Science in 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 23 graduates enrolled from Brazil, Haiti, Tanzania, India, and the United States. 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. For fellows who have already completed a Masters degree, we will structure tailored research methods training to fit their career development.

## 3. Hospital Medicine Clinical and Teaching Service

Trainees will also be mentored by faculty in Hospital Medicine. Hospital Medicine faculty currently provide the majority of medical student and residency inpatient medicine teaching on seven teaching services and one general medicine consult service at Weill Cornell NewYork-Presbyterian Hospital. Faculty also provide training in evidence-based medicine, point-of-care ultrasound, and quality improvement methods. Each trainee will be paired with a primary Hospital Medicine 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

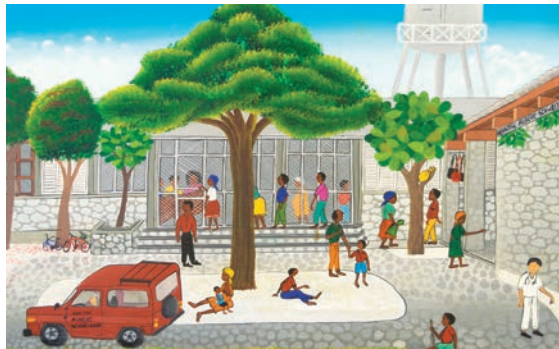


Daniel Fitzgerald, MD, Director of the Center for Global Health and Molly McNairy, MD, MSc co-founders, Global Health Research Fellowship



Drs. Daniel Fitzgerald and Molly McNairy co-founded the Global Health Research Fellowship in 2015. The fellowship exists within General Internal Medicine and is co-directed by Dr. Monica Safford (Chief, Division of GIM) and Dr. McNairy and assisted by Dr. Kathleen Walsh.

Dr. Fitzgerald is the Director of the Center for Global Health and serves as PI/Co-PI on numerous research and training programs in Haiti and Tanzania, including the GHEKIO Clinical Trials Unit and the Cornell-GHEKIO TB Research Unit. Dr. McNairy has extensive field experience in health services delivery and clinical medicine in sub-Saharan Africa. Her research focuses on designing and implementing novel models of care for HIV and cardiovascular diseases in resource-limited settings. Dr. Walsh lived in Haiti for several years. Her research focuses on the molecular epidemiology of drug-resistant TB.



Hospital in Haiti, by Marco Normil

A unique aspect of the Weill Cornell Global Health Research 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 GHEKIO 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 in Tanzania along with Dr. Jennifer Downs whose research is focused on schistosomiasis among people with HIV. 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, who conducts infectious research in Brazil and Haiti; Dr. Kathryn Dupnik who conducts translational research on TB in Haiti; Dr. Justin Kingery, who conducts translational research on immunology and cardiovascular disease in Tanzania; Dr. Puja Chebrolu, who conducts research on diabetes in India; and Dr. Radhika Sundararajan who conducts qualitative research on HIV in Tanzania.

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

# Apply

## Application Process

Eligible applicants are graduates of Internal Medicine residency training programs who express a commitment to become clinician-scientists focused on global health research. 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.



Dr. Kathleen Walsh with her colleagues in the GHESKIO Clinical Trials Unit.

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**  
email: [ghrf@med.cornell.edu](mailto:ghrf@med.cornell.edu)
- **WCMC Department of Medicine**  
<http://www.weillcornellmedicine.com>
- **WCMC Center for Global Health**  
<http://www.globalhealth.weill.cornell.edu>
- **WCMC Division of Clinical Epidemiology and Evaluative Sciences Research**  
<http://www.medicine.weill.cornell.edu/divisions-programs/clinical-epidemiology-evaluative-sciences-research>
- **WCMC Division of General Internal Medicine**  
<https://medicine.weill.cornell.edu/divisions-programs/general-internal-medicine>
- **GHESKIO, Haiti**  
<http://www.gheskio.org>
- **Weill Cornell Bugando Program, Tanzania**  
<http://weill.cornell.edu/globalhealth/major-initiatives/tanzania-weill-bugando>





# Weill Cornell Medicine

**Department of Medicine  
Division of General Internal Medicine  
Center for Global Health**

402 East 67th Street, 2nd Floor  
New York, NY 10065  
T 646.962.8140  
F 646.962.0285  
[ghrf@med.cornell.edu](mailto:ghrf@med.cornell.edu)