Annual Report 2018

Letter from the Director  4
Mission  6
Strategic Planning for 2019-24  7
2018 by the Numbers  9
Research Portfolio  10
Trainee Profile: Mercy Isichei, MBBS  14
Spotlight: Global Health Research  15
Research Faculty Profile: Claudia Hawkins, MD  17
Education Portfolio  18
Postgraduate Fellow Profile: Erica Ludi, MD  20
Spotlight: Global Health Education  21
Medical Student Profile: Hayley Sparks  23
Events  24
McGaw Clinical Scholar Profile: Colleen Fant, MD  25
Leadership  26
Global Reach  27

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LETTER FROM THE DIRECTOR

Dear Friends and Colleagues,

It is a pleasure to present the Center for Global Health’s Annual Report 2018, highlighting CGH’s current education programs, grant-funded research, and some of the people who embody the energy and diversity of a global health ecosystem that extends from Northwestern University Feinberg School of Medicine to partners across campus and around the world.

As we show in this report and on our website (globalhealth.northwestern.edu), CGH’s focus areas—research, research training, education in global medicine, and clinical outreach—are vitally important to the University’s overall mission. Our goal is not only to serve the Northwestern community, but also to integrate with other university global programs in biomedical engineering, law, management, social sciences, and the humanities. This interdisciplinary and translational approach is our greatest asset as we address critical healthcare issues on a global scale.

Ahead of CGH’s 10th anniversary this year, we conducted a self-review in 2018 to benchmark our center’s strengths and weaknesses prior to developing our 2019–24 Strategic Plan. The information-gathering phase proved invaluable, and my thanks go to many of you who took our surveys and participated in focus groups. I would also like to acknowledge the Strategic Plan Steering Committee—Chad Achenbach, Ashti Doobay-Persaud, Claudia Hawkins, Lisa Hirschhorn, Mark Huffman, and Leah Neubauer—for their time and wonderful ideas.

We are always happy to hear from our community. Please reach out to us at globalhealth@northwestern.edu or email me personally at r-murphy@northwestern.edu.

Sincerely,

Robert L. Murphy, MD
Director, Center for Global Health

The Center for Global Health has doubled its capacity in recent years in response to rising interest in global health—from undergraduates through emeritus faculty—across Northwestern’s schools and departments.
MISSION

The Center for Global Health works to create knowledge, capacity, and equity in global health through transdisciplinary research and education partnerships.
STRATEGIC PLANNING FOR 2019–24

In 2018 CGH undertook a strategic planning process overseen by Northwestern’s Office of Administration and Planning (OAP). A steering committee of faculty and CGH staff set the direction of the process, which has four phases: assess, develop, execute, measure. CGH surveyed various stakeholders—University leaders, faculty, students, alumni, grant-funded trainees; OAP moderated focus groups with survey respondents; and the steering committee analyzed the feedback. The resulting 2019–24 Strategic Plan names four priority areas for CGH, each with specific goals.

PRIORITY 1: RESEARCH
+ Increase quantity and diversity of faculty research projects.
+ Provide strategic, administrative, and technical support for well-funded, high-impact transdisciplinary global health research projects and programs through CGH.
+ Strengthen dissemination of research and education work.

PRIORITY 2: EDUCATION
+ Foster an educational and research environment that values global health equity.
+ Educate learners in ethical reasoning and global health practice, research, and training.
+ Prepare learners to work and thrive in diverse global health settings.

PRIORITY 3: PARTNERSHIPS
+ Enhance collaborations across the Feinberg School of Medicine and the larger University community.
+ Strengthen and expand relationships with regional and national global health entities.
+ Enhance global collaborations and relationships.

PRIORITY 4: ADMINISTRATIVE AND COMMUNICATION CAPACITY
+ Improve administrative capacity to support CGH’s education, research, and outreach programs
+ Communicate CGH’s mission, scope, and success stories.
2018 BY THE NUMBERS

External funding for the Center for Global Health

$6.5M + $2.3M

in direct research grants through projects funded by CGH partners

CGH-provided student support, including fellowships, travel grants, and Global Health Initiative awards

$588,264

School of Professional Studies students in MS in Global Health Online (MSGH)

Feinberg residents pursuing McGaw Global Health Certificate

90

43

CGH-sponsored events on campus

Northwestern faculty affiliated with CGH

16

83

Feinberg students and residents doing global health rotations abroad

115
A combined annual budget of $8.8 million propels a diverse portfolio of CGH research initiatives related to current training grants. Initiatives in 2018 include the projects described here.

Acute Coronary Syndrome Quality Improvement in Kerala, India (ACS QUIK)

Supported by National Institutes of Health, RO0 Grant; Northwestern Global Health Initiative; Northwestern Clinical and Translational Sciences Institute (NUCATS); Centre for Chronic Disease Control, New Delhi; and Kerala Chapter, Cardiological Society of India

ACS QUIK is implementing a stepped wedge cluster randomized trial to reduce morbidity and mortality among acute coronary syndrome (ACS) patients in Kerala, India, using analysis of a registry of more than 25,000 ACS admissions and deploying local experts to develop an ACS quality-improvement toolkit.

Center for Innovation in Point-of-Care Technologies of HIV/AIDS at Northwestern University (C-THAN)

Supported by Office of the Director, National Institute of Biomedical Imaging and Bioengineering; Fogarty International Center, National Institutes of Health; U54 Award

C-THAN seeks to bolster HIV/AIDS prevention and clinical management in low- and middle-income countries by promoting development of innovative point-of-care (POC) technologies. C-THAN’s project-development model incorporates clinical and user needs and deploys expertise and resources to address early barriers to commercialization and implementation. This work involves assessing unmet clinical needs in POC testing for HIV/AIDS and its comorbidities; collaborating with relevant scientists, physicians, researchers, and engineers; developing essential technical, clinical, industrial, and regulatory partnerships; clinically testing prototype POC devices in the field; and creating training opportunities for technology developers, evaluators, and other stakeholders.
Clinical Evaluation of a New, Highly Sensitive Multiplex qPCR for Detecting Tuberculosis and Nontuberculosis Mycobacteria

Supported by National Institutes of Health; R03 Award

This joint undertaking at the University of Bamako by Northwestern’s Center for Innovation in Global Health Technologies and the HIV/TB Laboratory in Mali is evaluating the sensitivity, specificity, and predictive qualities of a new assay that can differentiate *M. tuberculosis* complex from the treatable, most common non-tuberculosis mycobacteria (NTM), *M. avium* complex. The development and validation of this and similar technologies promises to improve the diagnosis of—and treatment selection for—TB and NTM diseases worldwide.

Epigenomic Biomarkers of HIV-Associated Cancers in Nigeria

Supported by Fogarty International Center, National Institutes of Health; U54 Award

The purpose of this research is to enable novel molecular/epigenetic detection of the determinants of HIV-associated cancers. Project components include conducting genome-wide epigenomic profiling in HIV-infected and uninfected cancer patients with cervical cancer and hepatocellular carcinoma (HCC), as well as in HIV-infected cancer-free patients; examining whether epigenetic biomarkers are associated with clinical features of HIV-associated HCC and cervical cancer and whether biomarkers in HIV-infected, at-risk individuals predict development of these two cancers; and training and mentoring junior and senior scientists in performing molecular epidemiology studies of HIV-associated cancers, with a focus on epigenetic biomarkers. The training and mentoring component entails setting up curricula and committees, funding cancer research awards, supporting pilot projects, and creating expanded facilities for medical informatics/statistics and pathology/genomics.

Expanded Multidisciplinary NeuroAIDS Research Training to Improve HIV Outcomes in Nigeria

Supported by Fogarty International Center and Office of the Director, National Institutes of Health; D43 Award

CGH partnered with the University of Ibadan (UI) to expand an earlier project that had set up and staffed three NeuroAIDS research cores at UI—the Mental Health Core, the Neuropsychological Infrastructure Core, and the Translational and Clinical Sciences Core. The project expansion builds on the cores’ aggregate capacity to advance UI as a leader in mental health research on HIV-related depression, stigma, disclosure, quality of life, and substance abuse and in translational and clinical research addressing HIV-associated neurocognitive disorder, central nervous system compartmentalization, antiretroviral treatment toxicity, drug resistance, cerebrovascular diseases, genomics, and NeuroAIDS comorbidities.
HIV and Mycobacterial Disease in Mali

Supported by Fogarty International Center, National Institutes of Health; D43 Award

An undertaking of CGH, together with University of Sciences, Techniques, and Technologies of Bamako (USTTB) and Bamako’s Point-G and Gabriel Touré Teaching Hospitals, this project aims to build HIV and mycobacterial research capacity at USTTB by linking its research-training efforts to those at Northwestern, Johns Hopkins University, and the National Institute of Allergy and Infectious Diseases. The purpose is threefold: produce capable Malian researchers on the molecular biology, genetics, immunology, clinical investigation, and microbiology of HIV-associated mycobacterial infection; strengthen USTTB graduate training programs through faculty enrichment and support of clinical and lab scientists; and create USTTB diploma programs in retrovirology, HIV comorbidities, and mycobacteriology for faculty and staff at USTTB and other low- and middle-income institutions in Mali.

Host-Pathogen Interactions in a Falling Global Lineage of Mycobacterium tuberculosis Complex: M. africanum

Supported by National Institute for Allergy and Infectious Diseases; Fogarty International Center, National Institutes of Health; R01 Award

CGH has partnered with University of Sciences, Techniques, and Technologies of Bamako HIV/TB Laboratory in Mali to investigate the host immune responses to M. africanum TB virus with pathogen factors to reveal critical aspects of host immunity and mycobacterial pathogenicity. The ultimate objective is to lay groundwork for the development of low-cost diagnostic assays for mycobacteria in Mali and other resource-limited countries.

Medical Education Partnership Initiative: Building Research and Innovation in Nigeria’s Science (BRAINS)

Supported by Fogarty International Center, National Institutes of Health; D43 Award

A partnership of the College of Medicine of the University of Lagos (CMUL), the AIDS Prevention Initiative in Nigeria, Harvard T. H. Chan School of Public Health, and CGH, this project seeks to expand the research capacities of CMUL junior faculty, build sustainable e-learning curricula, and support robust mentoring programs at CMUL in the following areas: HIV outcomes research, community medicine, genomics of infectious diseases, and innovation in biomedical engineering.

Northwestern University–University of Jos Research Training Program in HIV and Malignancies

Supported by Fogarty International Center, National Institutes of Health; D43 Award

This joint effort is building a program to train multidisciplinary teams of Nigerian researchers who focus on AIDS-defining malignancies, including cervical cancer, Kaposi sarcoma, and non-Hodgkin lymphoma. Teams will include HIV clinician-investigators who perform translational research on the pathogenesis, epidemiology, and prevention of AIDS-defining malignancies; oncology clinician-investigators skilled in clinical-trial research; and pathology and virology scientists who study oncogenic mechanisms and pathogenesis.
Partnership for Global Health Research Training Program

Supported by Fogarty International Center, National Institutes of Health; D43 Award

Through its partnership with the Fogarty Global Health Training Program, CGH coordinates mentored research opportunities for clinicians-in-training in resource-limited settings around the world. Trainees gain hands-on experience as they independently plan, implement, and assess innovative clinical or operations research focused on priority areas: HIV/AIDS and its coinfections, noncommunicable diseases (including cardiovascular disease and diabetes), mental health, and maternal and child health and nutrition. The program’s didactic components emphasize research methods and the development of analytic, regulatory, and cultural competencies.

Support of Training and Mentoring in Nigeria for Academics (STAMINA)

Supported by Fogarty International Center, National Institutes of Health; D43 Award

Arising from a partnership among Nigeria’s University of Jos and Ahmadu Bello University, the Harvard School of Public Health, and Northwestern, STAMINA will help prepare junior faculty at both Nigerian universities to carry out locally relevant research in the following areas: HIV outcomes, reproductive health, chronic disease (focusing primarily on breast and prostate cancers), bioinformatics, and genomics.

University of Ibadan-Medical Education Partnership Initiative: Junior Faculty Research Training Program (UI-MEPI-J)

Supported by Fogarty International Center, National Institutes of Health; D43 Award

A partnership among Nigeria’s University of Ibadan (UI), the Harvard T. H. Chan School of Public Health, and Northwestern underpins this program for UI junior faculty, who receive training in bioethics, research methodologies and management, mentorship skills, writing for scientific publications, and grant-proposal writing. Subject areas include laboratory and clinical investigation of HIV and its long-term complications, genomics of infectious diseases, and neurologic diseases with an emphasis on stroke and seizure disorders.

World Heart Federation Emerging Leaders Program

Supported by World Heart Federation, with grants from AstraZeneca and Boehringer Ingelheim

The World Heart Federation Emerging Leaders Program partners with the Department of Preventive Medicine and other educational institutions around the world to create a cadre of committed, emerging leaders with training in implementation science, health systems strengthening, and health policy research. As of 2017, more than 125 participants from 49 countries had been recruited.
Mercy Isichei has come to Northwestern to pursue a master’s degree in clinical investigation, with support from the Northwestern University–University of Jos (Nigeria) Research Training Program in HIV and Malignancies, a research initiative backed by the Fogarty International Center.

Isichei’s commitment to the study and improvement of human health is evident in many forms—from her academic and professional credentials to her work as a volunteer surgeon at the Faith Alive Hospital in Jos. She received her medical training in Nigeria—earning a bachelor’s degree in medicine and surgery at the University of Maiduguri and a master’s degree in field epidemiology at Ahmadu Bello University—and she is a fellow of the West African College of Surgeons. She also holds a certificate in cancer prevention from the National Cancer Institute in Bethesda, Maryland.

Because people with weakened immune systems have an increased risk for certain cancers, cancer-related mortality rates are especially high in the developing world, where HIV/AIDS remains prevalent.

Her Fogarty training grant relates to work she presented at a 2016 international workshop on HIV prevention research in resource-limited settings. Titled “Factors Associated with Delay in Presentation of Symptomatic Cancers among HIV-Infected Persons in Plateau State, Nigeria,” her study helps identify why diagnosis and initiation of treatment for cancer in HIV-infected Nigerians is often delayed, resulting in worse outcomes. The study was published in 2017 in *World Journal of AIDS*.

For her Northwestern master’s degree, Isichei is focusing on disparities in breast cancer care among HIV-infected and noninfected women.

Isichei’s work suggests that one factor in Nigeria’s high number of cancer illnesses and deaths is the tendency of many HIV-infected Nigerians with cancer to delay seeking diagnosis and treatment.
“Practicing medicine in the 21st century requires a broad knowledge of global health issues. Globalization has made it so that no disease can be confined by national border or ocean.”

—Robert L. Murphy, MD
CGH Director
New Center Boosts Point-of-Care Technology Development in Africa

Northwestern’s McCormick School of Engineering, in partnership with CGH, is leading a new center for developing and commercializing technologies that can improve healthcare outcomes for HIV-infected people in Africa. Called the Center for Innovation in Point-of-Care Technologies for HIV/AIDS at Northwestern University (C-THAN), the center has received a five-year, $7.5 million grant from the National Institute of Biomedical Imaging and Bioengineering, the Fogarty International Center, and the National Institutes of Health’s Office of AIDS Research. C-THAN’s mission is to foster a POC technology—development ecosystem in Africa targeting HIV and common comorbidities and complications, such as tuberculosis, hepatitis, diabetes, heart disease, and certain cancers.

C-THAN is working with collaborators at seven universities in Nigeria, Mali, South Africa, and Tanzania to assist at all stages of HIV/AIDS POC technology development—from needs assessment to design and prototyping to validation and commercialization. C-THAN’s pilot projects in its first year led to a p24 Ag assay to improve infant diagnosis; an improved qPCR test for HIV-associated TB; an HCV test for hepatitis C; a smartphone test for latent TB screening; and an improved sputum cup for TB testing.

C-THAN also supports training POC tech developers and evaluators in Africa to lead testing at clinical validation sites in the field. This reflects C-THAN’s broader aim of empowering African engineers, physicians, researchers, and other key stakeholders to continue the work.
Claudia Hawkins is associate professor of medicine and infectious diseases and director of the Viral Hepatitis/HIV Coinfection Program at Feinberg. She received her medical degree from the University of Southampton (UK) before moving to the US in 1999. She has over 10 years of clinical and research experience in HIV and chronic viral hepatitis B (HBV) and C (HCV) in both domestic and international settings. In particular, her research focuses on the epidemiology of HIV and viral hepatitis coinfection, associated long-term comorbidities, novel diagnostics for viral hepatitis, and antiviral treatment outcomes.

In 2013 Hawkins received a five-year National Institutes of Health K23-Mentored Patient-Oriented Research Career Development Award to investigate how antiviral therapies were affecting liver disease progression in HIV, HBV, and HIV/HBV coinfected patients in Tanzania. She is involved in similar studies of viral hepatitis and hepatocellular carcinoma with collaborators at the Universities of Lagos and Jos in Nigeria. These efforts have led to some of the first published data on HIV and viral HBV and HCV coinfection in Sub-Saharan Africa and on the burden of HBV- and HCV-associated liver disease in the region.

Hawkins has mentored junior faculty members, fellows, and medical students throughout her career, including recent participants in CGH’s medical education partnerships with Nigerian universities. In addition, she leads and participates in clinical trials investigating new therapeutic and potentially curative agents for HBV through Feinberg’s NIH-funded AIDS Clinical Trials Group.

Hawkins’s clinical work and research on HIV and liver diseases has involved collaborators based in the US, Tanzania, Nigeria, Brazil, Thailand, and South Africa.
Medical School Electives
CGH administers a well-structured global health elective program for Feinberg students. Data from 2018 show that 57.1 percent of Feinberg students engage in a global health elective or research project, compared with a national average of 25.9 percent. CGH’s network of education partnerships allows for medical exchanges with academic medical centers, primary-care clinics, and nonprofit organizations around the world. CGH has established policies that set minimum standards for program duration, supervision, predeparture preparation, safety, and security in line with national standards.

Certificate of Advanced Graduate Study in Global Health
International fellows who receive National Institutes of Health training grants through CGH are eligible to earn a certificate of advanced graduate study in global health. Administered by CGH and Northwestern’s School of Professional Studies, the certificate program prepares early-career health professionals to work in resource-limited settings. They learn skills for assessing and improving healthcare outcomes and navigating cultural and ethical considerations.

Master’s in Global Health Online (MSGH)
Offered by Northwestern’s School of Professional Studies in partnership with Feinberg and CGH, this interprofessional program allows clinicians, researchers, epidemiologists, nonprofit administrators, policy analysts, social entrepreneurs, and others to earn an MS while maintaining their professional commitments. Taught by faculty from Feinberg and Northwestern’s McCormick School of Engineering, Weinberg College of Arts and Sciences, and Kellogg School of Management, MSGH courses emphasize both theory and practical application, addressing ways to improve healthcare outcomes and systems, work in challenging healthcare settings, navigate global regulatory issues, and evaluate results.
Research Fellowships

CGH coordinates two yearlong research fellowship programs. One is open to Northwestern students and funded by Feinberg’s Global Health Initiative, which in turn is generously supported by Northwestern Medicine Primary and Specialty Care, its patients, and Feinberg donors. The other is the Fogarty Global Health Training Program, supported by the National Institutes of Health’s Fogarty International Center and offered through a consortium of Northwestern University, Harvard University, Boston University, and the University of New Mexico. Fogarty trainees are pre- and postdoctoral students from the US and low- or middle-income countries who conduct research at selected partner sites around the world.

Support for Long-Term Projects

Funded by Feinberg’s Global Health Initiative, CGH offers support for medical students who undertake 6- to 12-month global health projects that foster cross-cultural competencies, explore the social determinants of health, and offer experiential learning with clinical practitioners in resource-limited settings.

McGaw Global Health Clinical Scholars Program

This two-year, competency-based global health certificate program for Feinberg medical residents and fellows offers training in clinical care delivery in resource-limited settings worldwide. The program aims to provide cross-specialty education in global health concepts, high-quality global health training experiences, and faculty mentorship on scholarly projects. McGaw trainees have represented a wide range of disciplines, including internal medicine, obstetrics and gynecology, family and community medicine, pediatrics, anesthesia, surgery, radiology, dermatology, and neurology.
When the national health department of Bolivia recently prioritized reducing prehospital mortality in the Santa Cruz region, it partnered with the Northwestern Trauma and Surgical Initiative to improve prehospital and trauma care.

Participating in this effort is Erica Ludi, the 2018–19 Center for Global Health postgraduate fellow. Having spent the first two years of a general surgery residency at Emory University, she is now in Santa Cruz, serving as a legislative consultant and coordinator on health department projects and building relationships with six partnering hospitals.

Within weeks of arrival, Ludi wrote a 40-page document in Spanish outlining the accomplishments of the Northwestern-Bolivia collaboration and recommending goals for putting a trauma system in place. She also wrote proposals to establish government branches that would manage the trauma registry and organize a statewide trauma network.

With CGH support, Ludi obtained teaching materials to develop a first-responder/basic-trauma-care course for lay people to help minimize prehospital mortality. She is an advocate for the implementation of operative registries in general surgery and surgical subspecialties and the adoption of the surgical safety checklist.

In partnership with the local children’s hospital, Ludi will be conducting a retrospective study of patients with surgically treatable congenital malformations to assess treatment and outcomes.

The Bolivian government recently approved Ludi’s revision of the general medical record form, which will facilitate collection and analysis of trauma registry data.
Representatives from Northwestern’s online global health master’s program (MSGH) spent six days in Kabale, Uganda, in spring 2018 to evaluate new opportunities for collaboration with Kigezi Healthcare Foundation (KIHEFO). Northwestern is one of several institutions around the world that partner with KIHEFO to create global health fieldwork opportunities for graduate students and health professionals.

Northwestern’s MSGH contingent—including Mary Brennan of the School of Professional Studies and CGH’s Shannon Galvin (director of clinical programs and training) and Ashti Doobay-Persaud (associate director of global health graduate education)—met with KIHEFO’s founding director Geoffrey Anguyo to assess the progress of current student projects and discuss future possibilities.

KIHEFO’s initiatives include sustainable agriculture and nutritional services, maternal and child health programs, general health and HIV clinics, and data collection and research projects. MSGH students may contribute to these initiatives by choosing to do their field-based practicum through KIHEFO.
TOP>> KIHEFO’s Rabbit Project aims to battle malnutrition by encouraging participating mothers to increase their protein intake at an affordable cost. MSGH students gather and analyze data for the project while in the field.

MIDDLE LEFT>> KIHEFO founding director Geoffrey Anguyo displays tokens of Northwestern pride presented by MSGH assistant director Mary Brennan.

MIDDLE RIGHT>> MSGH faculty director Ashti Doobay-Persaud works alongside clinical staff during her visit to the community HIV clinic.

BOTTOM>> MSGH faculty and staff pose for photos with Geoffrey Anguyo and his wife, Sylvia (far right), at Lake Bunyonyi in Kabale.
Hayley Sparks is a fourth-year medical student at the Feinberg School of Medicine. Her recently completed longitudinal research project—on infants of HIV-infected mothers in Cape Town, South Africa—began during her first year at Feinberg, when Center for Global Health director Rob Murphy connected her with faculty at Cape Town’s Mowbray Maternity Hospital. With CGH funding, Sparks spent two months collecting data at the site.

Her project, “Donor Milk Intake and Infant Growth in a South African Neonatal Unit: A Cohort Study,” examines how infants grow when given donor breast milk, a form of feeding common at Mowbray because of high rates of maternal HIV and the relative unavailability of formula. Last year, Sparks presented preliminary findings in a poster presentation at the Pediatric Academic Societies Meeting. Project conclusions were recently published in the *International Breastfeeding Journal*.

Since her time in Cape Town, Sparks has sought additional global health opportunities with CGH assistance. She spent a month at the Navajo Area Indian Health Service and will be going abroad in 2019 through CGH’s partnership with Tel Aviv University.

“I always dreamed of pursuing my passion for global health research, but I never imagined I would have so much support as a medical student. I am really lucky and honored. I know my experiences will shape my future career as a clinician and a researcher.”
Each year, CGH coordinates on-campus events that make our work visible and provide learning opportunities: Global Health Days, which are open to the public; and the Global Health Seminar series, which helps Feinberg students prepare for overseas global health rotations. Topics and presenters in 2018 included these:

**Global Health Ethics**  
**Ashti Doobay-Persaud**, assistant professor of hospital medicine at Feinberg and associate director of global health graduate education at CGH

**Smoking Cessation in Sub-Saharan Africa: Progress and Challenges**  
**Maxwell Akanbi**, PhD candidate in the Feinberg Health Sciences Integrated PhD Program and National Postgraduate Medical College of Nigeria

**Top 10 Habits of Successful Global Health Practitioners**  
**Shannon Galvin**, associate professor of medicine at Feinberg and director of clinical programs and training at CGH

**SPRING GLOBAL HEALTH DAY**  
**Hoping to Help: The Promises and Pitfalls of Global Health Volunteering**  
Poster presentations and a keynote lecture by **Judith Lasker**, NEH Distinguished Professor of Sociology at Lehigh University

**Global Risks: Guidance and Resources for Responsible Travel**  
**Jonathon Zinger**, assistant director of Northwestern’s Office of Global Safety and Security

**Developing a Human Rights-Based Approach to Tuberculosis: Lessons from Research and Global Advocacy**  
**Brian Citro**, assistant clinical professor of law at Northwestern Pritzker School of Law’s Bluhm Legal Clinic and clinical assistant professor of social impact at the Kellogg School of Management

**Delivering Healthcare in Bolivia**  
**Mark E. Molitch**, Martha Leland Sherwin Professor of Medicine at Feinberg

**MHM in 10: Menstruation Hygiene Management in Kenya Primary Schools**  
**Leah Neubauer**, assistant professor of preventive medicine at Feinberg and director of accreditation for Feinberg’s Program in Public Health

**Sex, Drugs, and Global Health**  
**Anand Grover**, former United Nations special rapporteur on the right to health and cofounder of the Delhi/Mumbai Lawyers Collective HIV/AIDS Unit, and **Brian Citro** of Northwestern; cosponsored by Northwestern’s Institute for Sexual and Gender Minority Health and Wellbeing

**The Work of the Kigezi Healthcare Foundation**  
**Geoffrey Anguyo**, founding director of the Kigezi Healthcare Foundation (KIHEFO), Kabale, Uganda
Colleen Fant, MD

Colleen Fant is drawn to working with pediatric health-care providers, both in the US and in low- and middle-income countries, to help improve children’s health outcomes. Adept at sharing her knowledge and skills, she brings simulation-based training to the McGaw Global Health Clinical Scholars Program, where she helps prepare Feinberg residents for their global rotations overseas.

Fant’s interests in global health took shape in her undergraduate years as a global health minor at Northwestern. After graduation, she lived for a year in Ho, Ghana, helping the local H.O.P.E. Center transition to new management and working with local staff on malnutrition reduction and school-based sexual and reproductive health education.

Fant went on to complete MD and MPH degrees at Tufts University. Her degree work included research in Addis Ababa, Ethiopia, and her prior Ghana experience informed her public health research project on sexual health education in the US. As a pediatric resident at Massachusetts General Hospital, Fant worked with a program in Kenya to develop and publish a simulation-based curriculum for pediatric emergency medicine residents.

Now a pediatric emergency medicine fellow at the Ann and Robert H. Lurie Children’s Hospital of Chicago, Fant is working to build a partnership between Lurie and the emergency department of Bugando Medical Center in Mwanza, Tanzania, focusing on bidirectional education, training, and capacity building for the treatment of acutely ill children.
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Global Reach through Partnerships

AFRICA: Mali, Nigeria, Senegal, South Africa, Tanzania, Uganda

ASIA: China, India, Japan

EUROPE: France, Germany, Ireland, Sweden

LATIN AMERICA/ CARIBBEAN: Argentina, Belize, Bolivia, Chile, Ecuador, Mexico, Peru

MIDDLE EAST: Israel
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