



STANFORD  
CENTER FOR INNOVATION IN  
GLOBAL HEALTH

# Global Health Residency Track

CULTIVATING LEADERS IN GLOBAL HEALTH



A close-up, profile shot of a Black woman with her hair in many small braids. She is looking upwards and to the right, with her hand resting under her chin in a thoughtful pose. The background is blurred, showing other people in a crowd. The lighting is warm and soft.

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Stanford's Global Health Internal Medicine Residency is a unique program which allows a global health career-oriented resident to get into the field during training and be mentored one-on-one in the research methodology of their chosen field. We will customize a program over the three years of your training to help you work towards a world that values social justice and health equity."

**MICHELE BARRY**

*Director, Center for Innovation in Global Health*



## Michele Barry, MD, FACP

**THE DRS. BEN AND A. JESS SHENSON PROFESSOR OF MEDICINE AND TROPICAL DISEASES | SENIOR ASSOCIATE DEAN OF GLOBAL HEALTH | DIRECTOR OF GLOBAL HEALTH INITIATIVES IN MEDICINE | DIRECTOR OF THE CENTER FOR INNOVATION IN GLOBAL HEALTH**

Dr. Michele Barry is the founder of the Stanford/Yale Johnson & Johnson Global Health Scholars Program, the first organized program in the United States to send residents, fellows and faculty to do clinical service in countries in need. She has sent more than 1,000 physicians overseas to underserved areas. A past president of the American Society of Tropical Medicine and Hygiene (ASTMH), Dr. Barry is an elected member of the Institute of Medicine and the National Academy of Sciences and a passionate clinician and scholar, whose research focuses on tropical medicine, global health ethics, and the impact of climate change on megacities.



## Cybele Renault, MD, DTM&H

**INTERNAL MEDICINE PROGRAM LEAD, GLOBAL HEALTH | CLINICAL ASSOCIATE PROFESSOR, MEDICINE | FACULTY FELLOW, CENTER FOR INNOVATION IN GLOBAL HEALTH**

Dr. Cybele Renault joined the Stanford faculty in 2008. She has a particular interest in working with vulnerable patient populations, with a focus on clinical tropical diseases and teaching approaches for responsible antibiotic use to combat increasing global antimicrobial resistance. With clinical experience in Nepal, India, Thailand, Burkina Faso, Uganda, Zimbabwe, Rwanda and Ethiopia, Dr. Renault mentors global health residents and works to improve overseas rotations to better serve our international partners and strengthen collaborations with our partnering sites.



## Stephen Luby, MD

**DIRECTOR OF RESEARCH, CENTER FOR INNOVATION IN GLOBAL HEALTH | PROFESSOR OF MEDICINE (INFECTIOUS DISEASE) | SENIOR FELLOW AT THE WOODS INSTITUTE FOR THE ENVIRONMENT AND THE FREEMAN SPOGLI INSTITUTE**

Dr. Stephen Luby trained in epidemiology in the Epidemic Intelligence Service of the Centers for Disease Control and Prevention. He conducted research and taught epidemiology at the Aga Khan University in Karachi, Pakistan and directed the Centre for Communicable Diseases at the International Centre for Diarrhoeal Diseases Research, Bangladesh. Dr. Luby has made substantial contributions to advancing scientific understanding of hepatitis C transmission and promotion of safe injections; water, sanitation and handwashing; Nipah virus and typhoid fever epidemiology and prevention.



# Global Health Track Programs & Offerings



## **GLOBAL HEALTH: BEYOND DISEASES AND INTERNATIONAL ORGANIZATIONS**

In this intensive two-week course, directed by Dr. Cybele Renault, resident and fellows learn clinical and diagnostic skills to provide patient care in low-resource settings through case studies, simulations, and hands-on sessions. Interactive lectures in economics, public policy and city planning provide a comprehensive understanding of the challenges in global health.



## **GLOBAL HEALTH RESEARCH METHODS RETREAT**

Dr. Stephen Luby, the Center's Director of Research, teaches this two-day course for fellows, residents and medical students interested in developing research skills applicable to global health. Dr. Luby introduces participants to key issues in proposal development and provides a set of tools and an approach to help them develop their own research interests into tractable research questions.



## **FAIR OAKS CONTINUITY CLINIC**

Working within the San Mateo County Medical Center system, global health track residents care for uninsured and underserved patient populations through the three years of their residency. The Fair Oaks Clinic, in nearby Redwood City, offers primary care for adults, family planning, women's health and mental health services. Conversational Spanish skills are helpful but not required.





### **SOCIAL MEDICINE ROTATION**

Working with the Santa Clara County Hospital System, global health residents in their second year pack medical supplies and gear into a backpack and spread out into the community to serve the homeless population during a one-month Social Medicine rotation. Residents experience the challenges associated with severe mental illness and addiction, and learn first-hand the complexity of needs that define chronic homelessness.



### **QUARTERLY JOURNAL CLUBS**

Dr. Michele Barry hosts small gatherings in her home to give track residents the opportunity to present cutting-edge research on a topic of their choice. Residents identify a paper or series of papers to discuss and invite the principal investigator to co-present and lead the discussion with the group. These informal dinners are multi-disciplinary and have led to longstanding collaborations among residents and Stanford faculty.



### **MENTORING AND FUNDING FOR A MASTERS DEGREE**

Track residents have dedicated time overseas during their second and third years of residency. This time is used to participate in clinical work, research, and collaboration with a chosen site. Based on an individual's interests, goals, and desired skill set, each resident works closely with a faculty mentor and has the option for a funded Masters degree in their desired area.





**DESIREE LABEAUD, MD**  
Vector-Borne diseases



# Faculty Around The World

We have more than 180 faculty fellows whose primary appointments are in dozens of different academic disciplines and medical specialties. They lead research projects, provide clinical care and teach or mentor trainees and colleagues all over the world. Here are some examples:



**YVONNE A. MALDONADO, MD**  
Pediatric Infectious Diseases and  
Vaccinology



**JASON ANDREWS, MD**  
Tuberculosis and Epidemiology  
of Undifferentiated Fever



**CLEA SARNQUIST, DRPH, MPH**  
Gender-related Issues in Global Health



**MINDIE NGUYEN, MD, MAS, FAASLD**  
Gastroenterology and Hepatology



**MANU PRAKESH, PHD**  
Bioengineering and Development of  
Innovative Technologies



**AMI S. BHATT**  
Global Oncology



**KARL LORENZ, MD MSHS**  
Global Palliative Care



**ERAN BENDAVID, MD**  
Population Health  
and Outcomes Research



**BENJAMIN PINSKY, MD, PHD**  
Development of Novel Low-cost  
Diagnostics



**DARYN REICHERTER, MD**  
Human Rights in Trauma  
in Mental Health



**KAY DANIELS, MD**  
Women's Health and Obstetric  
Emergencies



## Jason Andrews, MD

### **ASSISTANT PROFESSOR OF MEDICINE (INFECTIOUS DISEASES) AND HEALTH RESEARCH AND POLICY**

Tuberculosis affects 9.6 million people every year and kills 1.5 million, making it the number one cause of death from an infectious disease. Resource-limited countries have tried to control TB by waiting to test symptomatic patients once they arrive at the hospital, clinic or doctor's office. At that point, it's often too late to determine where transmission has occurred, as an infected individual may have begun transmitting disease as much as a year before diagnosis.

In 2016, the National Institutes of Health awarded Dr. Andrews the prestigious Director's New Innovator Award for his work developing novel methods for early diagnosis by identifying bacteria in the shared air in places where people congregate. Using air sampling devices and molecular diagnostic techniques, he combines air sampling and social mixing data, and ultimately by applying statistical inferential models. He currently works in South Africa, Brazil, Nepal, India and Bangladesh.



## Ami S. Bhatt, MD, PhD

### **DIRECTOR OF GLOBAL ONCOLOGY, ASSOCIATE PROFESSOR OF MEDICINE (HEMATOLOGY) AND GENETICS, CO-FOUNDER GLOBAL ONCOLOGY**

Dr. Bhatt created a multi-disciplinary collaboration with Stanford and Nigerian clinicians and the Nigerian Ministry of Health to launch a national cancer care plan to improve health outcomes in a country where more than half the population lives on less than \$2 a day and cancer kills more people than infectious diseases. She leads a Stanford team of medical and radiation oncologists, palliative care specialists and nurse practitioners, who design programs to improve cancer care.

Dr. Bhatt cofounded an international nonprofit organization designed to bring the best cancer care to underserved patients around the world. Global Oncology uses an open-access format and collaborates across geographic, professional and academic borders to improve cancer care, research, and education.





## Mindie H. Nguyen, MD, MAS, AGAF, FAASLD

### **PROFESSOR OF MEDICINE (HEPATOLOGY)**

Dr. Nguyen is Professor of Medicine and Director for the Hepatology Fellowship and Clerkship in the Division of Gastroenterology and Hepatology and Liver Transplant at Stanford University Medical Center. An active clinician, she has been a teacher and mentor for over 130 trainees at various levels of training. Her research focuses on viral hepatitis, non-alcoholic fatty liver disease and liver cancer with an emphasis on epidemiology and linkage to care.

Dr. Nguyen has directed scientific programs of continuing medical conferences for physicians in Mongolia and Myanmar. She has collaborated with investigators globally, especially in Asia Pacific region with current collaborations with over 30 centers in Japan, Hong Kong, Mainland China, Myanmar, New Zealand, Singapore, South Korea, and Taiwan.



## Clea Sarnquist, DrPH, MPH

### **SENIOR RESEARCH SCHOLAR, PEDIATRIC INFECTIOUS DISEASES**

Dr. Sarnquist focuses on applied teaching and research on the development, implementation and evaluation of interventions to decrease gender-based violence and understand the interplay between violence and HIV, especially among adolescents and children. She is the co-investigator of the largest-ever randomized controlled trial of an empowerment self-defense educational and behavior-change intervention among adolescents, funded by “What Works to Prevent Violence Against Women and Girls” Programme, as well as a RCT to study a sexual assault prevention intervention among Stanford undergraduates. All of her work is applied, with direct links to health practice and policy. She works both globally and in the U.S., with a focus on sub-Saharan Africa.



## Eran Bendavid, MD

### **ASSOCIATE PROFESSOR OF MEDICINE (PRIMARY CARE AND POPULATION HEALTH)**

Dr. Bendavid's work is based on global health policy analysis, where he studies how economic, political, and natural environments affect population health. His team designs and tests the comparative effectiveness and cost-effectiveness of treatment and prevention options for the control and prevention of HIV, tuberculosis, and malaria in Sub-Saharan Africa and India.

Dr. Bendavid's group also develops and applies tools from across the quantitative spectrum to address a range of global health policy questions, including: how is climate change affecting the health of populations living in developing regions? What is the evidence that foreign aid for health is good diplomacy? What effect does economic development have on obesity and malnutrition?



## Desiree LaBeaud, MD, MS

### **PROFESSOR OF PEDIATRICS (INFECTIOUS DISEASES) AND HEALTH RESEARCH**

Dr. Desiree LaBeaud studies the epidemiology and ecology of domestic and international arboviruses and emerging infections. Her interests focus on the vector, host, and environmental factors that affect transmission dynamics and spectrum of disease. She investigates dengue fever, chikungunya, Zika virus, and Rift Valley fever virus in Kenya and other developing regions.

The LaBeaud Lab investigates the genetic and immunologic differences that influence variable host responses to arboviral infections. Her group also develops diagnostic tests that can be administered in the field. Dr. LaBeaud and her team aspire to understand local and personal perceptions of mosquito-borne disease risk and to establish meaningful connections with the communities they impact in order to engage community action in prevention. Her current field sites include Kenya, Grenada, and Brazil.





## Karl Lorenz, MD MSHS

**SECTION CHIEF, VA PALO ALTO - STANFORD PALLIATIVE CARE PROGRAMS  
PROFESSOR OF MEDICINE (PRIMARY CARE AND POPULATION HEALTH)**

Dr. Lorenz's work in global palliative care encompasses the use and applications of technology, quality measurement and standards, quality improvement collaboratives, and implementation science. The Palliative Care—Promoting Access & International Cancer Experience in India Collaborative, or PC-PAICE program, was established in 2016 and has trained two cohorts of palliative care-oncology teams at leading Indian academic and community facilities.

Dr. Lorenz and his team focus on barriers to implementing quality improvement and palliative care services in India. They also explore the use of PC-PAICE training in oncology and other international health systems. A philanthropically supported hub in India will assume primary responsibility for ongoing training and dissemination and growth starting in 2020.



## Daryn Reicherter, MD

**DIRECTOR OF HUMAN RIGHTS IN TRAUMA AT THE MENTAL HEALTH LABORATORY  
CLINICAL PROFESSOR OF PSYCHIATRY AND BEHAVIORAL SCIENCES**

Dr. Daryn Reicherter has spent more than a decade providing a combination of administrative and clinical services in trauma mental health locally and internationally. He has worked with many court transitional justice systems internationally (including the Khmer Rouge Tribunal and the International Criminal Court), and in this capacity, he supports asylum seekers affected by mental illness.

Dr. Reicherter is on the List of Experts for the Extraordinary Chambers in the Courts of Cambodia and for the United Nations' International Criminal Court. He is on the Fulbright Specialists Roster for his work in international trauma mental health. He has created and cultivated new clinical rotations for residency education and medical school education at Stanford in the community clinics that he operates, including the AACI Clinic, which focuses on refugee mental health.



## Kay Daniels, MD

### **CLINICAL PROFESSOR OF OBSTETRICS AND GYNECOLOGY**

Dr. Daniels is the Director of the OB Simulation program for the Johnson Center for Pregnancy and Newborn Services. She has experience teaching obstetrical emergency care using simulation-based training to residents and attendings in low-resource areas including Nicaragua, Guatemala, and China.

As a result of her work in these countries, Dr. Daniels and her team created a bilingual educational program called GO MOMS and an additional program titled GO GYNS to bring proven treatments for obstetrical emergencies from the developed countries to low resource countries. They aspire to expand GO MOMS to hospitals in India.



## Yvonne A. Maldonado, MD

### **SENIOR ASSOCIATE DEAN FOR FACULTY DEVELOPMENT AND DIVERSITY PROFESSOR, DEPARTMENTS OF PEDIATRICS AND HEALTH RESEARCH AND POLICY**

Dr. Maldonado is the Director of Global Child Health and Chief of the Division of Infectious Diseases, Department of Pediatrics. She served as an Epidemic Intelligence Service Officer at the Centers for Disease Control and Prevention, and she led several domestic and international pediatric vaccine studies.

Dr. Maldonado's research interests include the impact of rotavirus, measles and polio vaccines on the epidemiology and prevention of childhood infections in low resource populations and the prevention and treatment of perinatal HIV infection in the US, Mexico and Africa. The Chair of the American Academy of Pediatrics Committee on Infectious Diseases, she has over 150 peer reviewed publications in scientific journals and is co-editor of the textbook "Infectious Diseases of the Fetus and Newborn Infant" and the widely-used American Academy of Pediatrics "Red Book."





## Benjamin Pinsky, MD, PhD

### **ASSOCIATE PROFESSOR OF PATHOLOGY**

Benjamin Pinsky, M.D., Ph.D., is an Associate Professor of Pathology and Medicine, in the Division of Infectious Diseases and Geographic Medicine and has a courtesy appointment in the Department of Pediatrics, Division of Infectious Diseases. He serves as the Medical Director of the Clinical Virology Laboratory and of Esoteric Testing for Stanford Health Care and Stanford Children's Health, as well as the Co-Medical Director for Point of Care Testing for Stanford Health Care. Dr. Pinsky's global health research interests include the design of novel diagnostics and investigation of the clinical impact of infectious diseases testing, particularly in low-resource settings. He has engaged in translational research and laboratory capacity building in Brazil, Colombia, Ecuador, Kenya, Nicaragua, Paraguay, and Zimbabwe. Dr. Pinsky serves as the U.S. editor-in-chief for the Journal of Clinical Virology and co-editor of the 5th edition of the Clinical Virology Manual.



## Manu Prakash, PhD

### **ASSISTANT PROFESSOR OF BIOENGINEERING**

Dr. Prakash studies the structure, function and evolution of organisms through the lens of physics. He advocates for frugal science and builds low-cost and powerful tools for field science, bringing science from the lab into parts of the world where traditional tools are not available or affordable.

Dr. Prakash's curiosity-driven research group invented a human-powered centrifuge. Built from 20 cents of paper, plastic and twine, it can separate blood into its individual components in 90 seconds. His lab also created the Foldscope, a paper origami microscope which he field-tested in Madagascar and has been used to identify microscopic eggs of agricultural pests in India, to catalog the biodiversity of soil anthropods in the Amazon and to detect bacteria in water samples in Mexico. Dr. Prakash's team also created Abuzz, an iPhone app that identifies malaria-carrying mosquitoes by recording and measuring the frequency of their buzz.

# Events & Recent Graduates of Resident Track



## **WOMEN LEADERS IN GLOBAL HEALTH CONFERENCE**

Dr. Michele Barry created this conference to bring together established and emerging leaders from across sectors and cultures to increase gender equity in global health leadership. The annual global summit offers talks, panel discussions, interactive workshops, skills sessions and opportunities for collaboration.



## **ANNUAL RESEARCH CONVENING**

This one-day conference, led by Dr. Stephen Luby, brings together students and faculty working in global health, fostering discussion across a variety of disciplines. Engineers, economists, earth scientists, mathematical modelers and physician-scientists share ideas and explore new collaborations, sustainable solutions and opportunities for student engagement.



## **CONVERSATIONS IN GLOBAL HEALTH**

We invite leaders from government, non-governmental organizations, universities and foundations to speak with students, faculty and members of our community about making a career, and a life, in global health. We have featured the President of the World Bank, the Executive Director of the World Food Programme; and a Director at the Bill & Melinda Gates Foundation.



## **FALL KICKOFF AND SUMMER SOLSTICE CELEBRATIONS**

Every year, we invite the entire global health community to come together for a Fall Kickoff Party and a Summer Solstice Celebration. Over food and drinks, students, researchers, faculty and others discuss their latest projects and initiatives. In a relaxed social setting, collaborations are born, ideas are shaped, and life-long friendships begin.



## Andrew Young Chang, MD

**CARDIOLOGY FELLOW | STANFORD UNIVERSITY**

Dr. Chang co-founded an enterprise that develops low-cost technologies for resource-limited countries. During residency, he studied rheumatic heart disease in reproductive-aged women in Rwanda and Uganda. After a Chief Resident year, he earned his Master's Degree and is now pursuing his PhD in Epidemiology and Clinical Research. Dr. Chang's interests include health economics, cost-effectiveness analysis, and creating policy interventions to improve population health.



## Joshua Biddle, MD

**MEDICAL DIRECTOR OF OUTPATIENT PALLIATIVE CARE | MARIN GENERAL HOSPITAL**

Dr. Biddle has extensive experience working in clinics in Nairobi's slums and doing site assessments in health clinics in western Kenya. As a Fulbright Scholar, he coordinated a case-control study of patients with Burkitt's Lymphoma in western Kenya. During his residency, he worked in Uganda in his second and third years, focusing his research on a palliative care needs assessment for patients with end stage renal disease.



## Nicholas Degner, MD, MPH

**INFECTIOUS DISEASE FELLOW | STANFORD UNIVERSITY**

Dr. Degner worked at the Johns Hopkins' Center for Tuberculosis Research, focusing on non-sputum markers for TB diagnosis and treatment response. He implemented epidemiologic studies evaluating metformin and statins as potential adjunctive anti-tuberculosis therapies. As an infectious diseases fellow, he works with Dr. Jason Andrews, designing a validation trial of non-sputum-based TB diagnostics and markers of treatment response.



## Rebecca Tisdale, MD, MPA

**CHIEF RESIDENT | STANFORD UNIVERSITY**

Dr. Tisdale earned a Masters of Public Affairs from the London School of Economics and Sciences Po in Paris, where she studied health policy and economics and worked in Ethiopia, South Africa, and Thailand. As a resident, she worked in Rwanda and focused her research on cost-benefit analysis of preventative care and the impact of healthcare policy on patient outcomes. Next year, she will begin her fellowship in Health Services Research and Development at Stanford.





## Get In Touch

At Stanford Global Health, we provide track residents with the mentoring, training and clinical opportunities necessary for them to become leaders, ready to address urgent challenges in global health.



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