



UCSF GLOBAL HEALTH SCIENCES

Improving health and reducing disease worldwide

We believe in leadership and action:

To improve health and eliminate disease on a global scale.

To train a new generation of global health scientists and clinicians to act on the data their research discovers.

To break silos using interdisciplinary teams of experts to address global health challenges of the 21st century like pandemics, climate change, water, and food security.

To reduce global health disparities of gender, poverty, ethnicity, and nationality.

To create global partnerships to build capacity in health, science, and technology.

To translate research into policies and programs that lead to action.



UCSF Global Health Sciences (GHS) exists to find and implement solutions to systemic problems destroying the health and shortening the lives of the citizens of the world. GHS offers proactive and practical approaches to addressing major health challenges facing our planet, and is dedicated to acting on knowledge gained through research to create long-term solutions to global health problems.

GHS faculty and programs apply a broad range of knowledge and skills to finding these solutions, incorporating sound management practices, a view to long-term sustainability, and technological innovation to create truly global answers. Join us in our effort to improve health around the globe. We will offer lasting change only by training the next generation of leaders to give them the tools and knowledge they need to craft solutions to the world's health problems, and by working with partners around the world to translate the results of our research into action.

Background

Critical global health issues affect us all — our nation, our local communities, the world's poorest populations. The complexity of these challenges has grown as a consequence of globalization, migration, environmental degradation, population increase, and technological development.

Meaningful change requires new collaborative and interdisciplinary responses that address limitations in health infrastructure, research, and workforces worldwide. From the persistent challenges of infectious diseases and global warming to the emerging threats of non-communicable diseases, UCSF Global Health Sciences is poised to contribute to these responses.

UCSF's strengths in research, education, and patient care provide the academic resources needed to support a robust program in global health. GHS was established by Chancellor J. Michael Bishop in 2003 to provide a formal structure to foster the growing commitment of faculty, students, and staff to global health work. GHS' mission is to eliminate major health disparities and improve the health of the most vulnerable populations here at home and around the world.



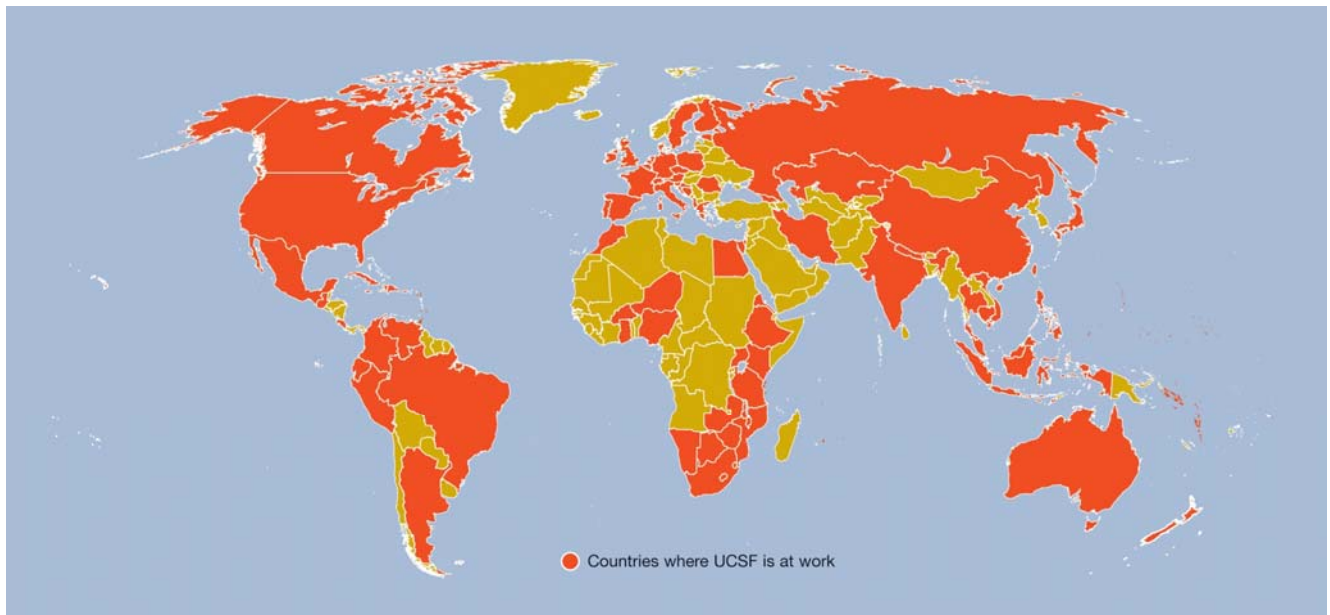
How is GHS best positioned to make a difference?

Global Health Sciences at UCSF gathers the University's considerable science, education, and healthcare expertise to focus on urgent issues in global health. GHS' multidisciplinary educators, clinicians, and researchers are preeminent scholars in their fields. They synergize a commitment to improving the human condition with proven track records of developing practical and lasting solutions to the varied problems they study. GHS offers these professionals an opportunity to use their skills for the benefit of populations worldwide, in close collaboration with one another and with partnering organizations at the local and national levels.

GHS draws upon the rich academic resources at UCSF and throughout the UC system, including basic sciences, economics, environmental sciences, engineering, veterinary medicine, agriculture, public health, and health policy. The success of its programs prompted the UC Office of the President to call on GHS to lead the planning for a systemwide School of Global Health. A planning report for the School was enthusiastically received by the UC Regents in September 2008. The second phase of planning has begun with a generous two-year planning grant from the Bill and Melinda Gates Foundation.

GHS tailors its solutions to address its partners' global health challenges. We work closely with local governments, health departments, and other institutions and organizations to fund and develop location-specific, culturally sensitive models. Our work translates research into action, with measurement and monitoring to ensure that the programs we help our partners develop contribute to good health outcomes. "Global health" is more than a broad look at worldwide challenges; we work to improve the health of citizens in California as much as in Kenya. Through innovative approaches, leadership and interdisciplinary strategies addressing poverty, disparities, and the scourge of chronic diseases and pandemics, GHS' work benefits the people of California as well as those in developing nations around the world.

Based on the core principles of equity, respect, and excellence, GHS seeks to eliminate major health disparities and improve the health of the most vulnerable populations around the world.





Educational Programs

GHS' STRATEGIC IMPERATIVES

- Educate and train
- Build capacity
- Perform research
- Translate knowledge into action

GHS programs are driven by these strategic imperatives: education and training, capacity building, research, and translating what we learn into action to the benefit of California and developing countries around the world.

Our educational programs promote excellence in teaching global health and partnering with other UC campuses and international institutions to develop unique training programs for researchers, health providers and future global health leaders.

MS/PhD Program in Global Health Sciences: The M.S. in Global Health Sciences program began in September 2008 with students drawn from disciplines across the health sciences. The curriculum brings together medicine, public health, environmental science, economics, social sciences and research to prepare a new generation of leaders capable of transcending cultures, borders, and disciplines to find creative solutions to global health problems.

Pathways to Discovery: Pathways trains UCSF medical, nursing, pharmacy, dental, and basic science students for research and global health practice. The program recently earned an NIH Global Health Framework award.

Global Health Clinical Scholars: Postgraduate scholars from multiple disciplines in the UCSF health sciences schools obtain formal training to incorporate global health interests into their clinical and research careers. Now in its third year, the program's enrollment has reached 24

scholars from all four health sciences schools at UCSF. Recent graduates are in NIH Fogarty and GHS Fellowships and employed in the UCSF Global Health Sciences Groups.

Sandwich Certificate Training Program for International Scholars: Masters and doctoral students from partner institutions in developing countries participate in advanced training opportunities in clinical epidemiology or basic sciences through coursework and mentored research training at UCSF. The program uses a "sandwich" model of training in which students complete the initial part of their training in their home university, attend UCSF for advanced training, and return home to complete a thesis on a topic appropriate to their country's health needs.

Californians Think Leadership in Global Health is Important

In a November 2008 poll of Californians, Research!America found:

85% of Californians are concerned about global health.

76% said establishing a degree-granting School of Global Health in the University of California should be a high priority.

59% said they would be willing to pay \$1/week in state taxes to fund more California investments in global health.



Capacity-Building and Research

GHS partners with health and education institutions in developing countries to help them build their scientific and health workforces and institutional capacity in order to minimize “brain drain” and promote sustainability.

Health Education/MUHAS: GHS has been working in close collaboration with Tanzania’s Muhimbili University of Health and Allied Sciences in Dar es Salaam for six years. The goal of that collaboration—to develop a model health professions training program—has finally reached fruition, and the program was launched in November 2008 with generous funding from the Bill and Melinda Gates Foundation.



Surgical Workforce Training Program: Thanks to the support of the Rockefeller and Gates Foundations, GHS helped form the Bellagio Essential Surgery Group, which seeks to improve access to basic, life-saving emergency obstetrical surgical services in Sub-Saharan Africa in order to reduce maternal and fetal mortality. A network of 11 African countries has been formed to train non-physician surgeons to deliver these services and to increase access to basic and emergency surgical care at the district hospital level.

IT and Wireless Technology: GHS works with other UC campuses to introduce new and developing technologies to advance global health delivery and capacity-building solutions, including the use of wireless technology for telemedicine and teaching in remote locations. Also in development: a web-based electronic health record with personal health data that can be accessed on cellular networks.

Faculty Scholars: GHS is linking the work of faculty members from UCSF’s Schools of Medicine, Nursing, Dentistry and Pharmacy to international partnerships through which many of our training and research activities will be implemented.

Global Health Research: We emphasize promoting excellence in biological, clinical, population, social, and behavioral research at UCSF and partner institutions by developing cross-cutting interdisciplinary global health research. GHS is working within UCSF and with other universities to introduce research management innovations and improve administrative capacity to enable research activities in countries and with faculty around the world.



Interdisciplinary Approaches

GHS takes an interdisciplinary approach to global health that brings together education, capacity building and research and the associated disciplines to create actionable programs.

Diseases do not respect national boundaries. Recent globally spread infectious diseases such as SARS and avian influenza underscore the reality that any local outbreak can become a global pandemic in days.

The Global Health Group (GHG), led by Sir Richard Feachem, KBE, FREng, DSc (Med), PhD, is an 'action tank' dedicated to translating new approaches to global health challenges into large-scale action in developing countries. The GHG has convened an international Malaria Elimination Group advising 40 countries on the eradication of this ancient disease, and supports the design and implementation of malaria elimination programs in seven countries in southern Africa and Asia Pacific. The Group also pioneers new approaches to public-private partnerships to strengthen the role of the private sector in health finance, infrastructure and service delivery. The GHG's work is funded by grants from the Bill and Melinda Gates Foundation and ExxonMobil.

The Prevention and Public Health Group (PPHG) is led by George Rutherford, MD, and is dedicated to improving the health of the world's most vulnerable populations through applied research, education and program improvement. PPHG works extensively with the Presidential Emergency Plan for AIDS Relief (PEPFAR) in several African countries to improve our knowledge of the burden and spread of HIV, to evaluate public health and clinical programs, and to design better prevention interventions. PPHG also

hosts the Cochrane Collaborative Review Group on HIV Infection and AIDS, which provides expert consultation to the World Health Organization (WHO), the Joint United Nations Programme on HIV/AIDS (UNAIDS) and others on formulating practice guidelines and indentifying highest quality evidence. PPHG has introduced a variety of teaching materials developed with WHO and the Centers for Disease Control and Prevention (CDC) to audiences from national AIDS control programs in Eastern Europe, the former Soviet Union, the Middle East and North Africa. PPGH also oversees an on-the-job training program in AIDS prevention research methods for scientists from low- and middle-income countries; since the program's inception in 1988, it has trained more than 150 scientists from 35 nations around the world.

The Consortium of Universities for Global Health (CUGH) comprises 20 leading North American Universities with fully established global health centers. UCSF GHS is the founding organizational home for CUGH and will function as its Secretariat for three years. Funding from the Bill and Melinda Gates and the Rockefeller Foundations supported Global Health Sciences' leadership and formation of the Consortium. Its vision is to make Universities a transforming force in global health. The inaugural meeting of CUGH was held at the Mission Bay Campus of UCSF on September 7-9, 2008.

The Forum addresses a single theme over the course of a year, raising compelling, significant questions that lead to reports, policy briefs and actions intended to significantly improve the human condition. In 2007-2008, issues of migration and health were explored in 10 stakeholder meetings with support provided by the California Endowment and California HealthCare Foundation. Strong linkages now exist with state policy makers, local NGOs, other UC campuses, and the Health Initiative of the Americas.



Leadership



*Haile T. Debas,
MD*

UCSF Global Health Sciences is directed by **Haile T. Debas, MD**, and reports to Chancellor J. Michael Bishop.

Dr. Debas is internationally recognized for his contributions to academic medicine and is widely consulted on issues associated with global health. At UCSF, Dr. Debas has held a variety of leadership positions, including Dean of Medicine, Vice Chancellor for Medical Affairs, and Chancellor. Dr. Debas is a gastrointestinal surgeon by training, is the Maurice Galante Distinguished Professor of Surgery, and has chaired the UCSF Department of Surgery.

A native of Eritrea, Dr. Debas received his MD from McGill University and completed his surgical training at the University of British Columbia. He currently serves on the United Nations' Commission on HIV/AIDS and Governance in Africa and on the Committee on Science, Engineering, and Public Policy of the National Academy of Sciences. Dr. Debas is leading the planning for a UC School of Global Health.



*Richard Feachem,
KBE, PhD,
DSc(Med), FREng*

Sir Richard Feachem recently returned to UCSF from his tenure as the first Executive Director of the Global Fund to Fight AIDS, Tuberculosis and Malaria, to head up the Global Health Group, a new "action tank" to translate research into policy and action. He is professor of Global Health at the UCSF School of Medicine and the UC Berkeley School of Public Health. He was the founding Director of UCSF's Institute for Global Health.

Sir Richard's contributions have had a significant impact on health worldwide. In recognition of his efforts at the Global Fund, Dr. Feachem was knighted by Her Majesty Queen Elizabeth II in 2007. Sir Richard is the former Director for Health, Nutrition and Population at the World Bank, and also served for six years as Dean of the London School of Hygiene and Tropical Medicine.



*George
Rutherford, MD*

George Rutherford, MD, is the Director of the Prevention and Public Health Group, the Salvatore Pablo Lucia Professor of Epidemiology, Preventive Medicine and Pediatrics and Vice Chair of UCSF's Department of Epidemiology and Biostatistics in the School of Medicine. He is also Adjunct Professor of Epidemiology at the School of Public Health, UC Berkeley.

Dr. Rutherford received his MD from Duke University and completed his pediatrics training at UC San Diego and the Hospital for Sick Children in Toronto. Following training in epidemiology in the Centers for Disease Control's Epidemic Intelligence Service, he spent his early professional career in public health practice, focusing on the epidemiology and control of communicable diseases. He has served as the State Health Officer and State Epidemiologist for the California Department of Health Services and the Director of the AIDS Office for the San Francisco Department of Public Health. He currently serves on the Board on Population Health and Public Health for the Institute of Medicine.



The Essential Role of Philanthropy

Since its launch, students, faculty, and colleagues from around the world have demonstrated their interest in Global Health Sciences at UCSF. Our programs continue to expand, develop and be deployed in dozens of countries around the world. GHS is taking action to effect positive change as a leading academic program in global health research, training, and service.

The single greatest need for continued rapid progress in Global Health Sciences is financial support. The human resources, scientific and medical capacity, and leadership are firmly in place, the programs' effectiveness demonstrated; now we need your support to expand our impact on California and the world, increasing our ability to influence global health policy in the U.S. and the rapidly growing community of academic institutions focused on global health.



For more information, contact:

Leilyne Fong

Director of Development, Global Health Sciences

University of California, San Francisco

415-514-1646

Your gift to GHS can be structured to provide maximum philanthropic impact and substantial benefits for your financial or estate planning. Donors are encouraged to consider these options:

Outright Gifts: You may make a commitment to GHS and immediately fund it with cash, securities, life insurance policies given outright, real estate, or other assets. Gifts of appreciated securities are often particularly advantageous to the donor.

Pledges: You may pledge an amount to GHS and arrange to fulfill it in installments over time.

A member of our staff can meet with you or your financial advisor to structure the most beneficial arrangements for your circumstances.