

Our Motto: Transcending Borders for World Health



Johns Hopkins University faculty, staff, and students have dedicated themselves to the good health of all people around the globe, old or young, rich or poor. © 2002 Virginia Lamprecht, Courtesy of Photoshare

Transcending Borders for Global Health

Message from the Director

Johns Hopkins University has always been on the forefront of global health, from the discovery of basic vitamins in the early 1900s to the HIV/AIDS breakthroughs of today. Despite our progress, problems in developing countries persist—emerging infectious diseases, escalating chronic diseases, social and political instability, health care inequities—and they urgently need effective solutions.

Johns Hopkins created the Center for Global Health in 2006 to lead the University in developing solutions to these health challenges. The Center pulls together Hopkins' extensive knowledge base to develop sustainable solutions that transcend the borders preventing good health throughout the world—borders between disciplines, languages, countries, governments, funding streams, drug availability, education, health care, and more. Hence, the Center's motto: Transcending borders for world health.

To achieve our goals, we solicit funding to support global health research by specialists from different disciplines as they work together on innovative solutions to health problems. We are educating the next generation of global health leaders to carry our work into the future, while also training citizens of developing countries to provide quality health care to their own. We translate scientific advances into programs on the ground that directly improve the lives of those suffering from disease.

All of our work addresses the inequities and social injustices that underlie many of the world's health problems. We do it all in hopes that, through our efforts, the good health of all Earth's inhabitants will transcend sickness and suffering.

Thomas C. Quinn, MD, MSc
Director

"The Center is an unusual partnership that promotes collaboration throughout the University and uniquely positions Hopkins in the arena of global health. We coordinate and focus efforts against HIV/AIDS, malaria, tuberculosis, malnutrition, diarrheal diseases, emerging chronic diseases, and other worldwide health threats, especially in developing countries, with the ultimate goal of eliminating these health problems."

—Thomas C. Quinn, MD, MSc, Director



Transcending Organizational Borders

Institutional Support

The Center for Global Health coordinates the global health activities of the entire Hopkins community, but it was founded through the generous support of the School of Nursing, Bloomberg School of Public Health, and School of Medicine. The deans of these three schools support the Center's quest to address health threats worldwide.

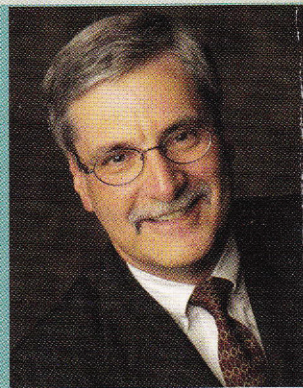
"With the Center for Global Health, the University is rapidly increasing our effectiveness in research, teaching, practice, and service around the world."

—Martha N. Hill, PhD, RN, FAAN, Dean, School of Nursing



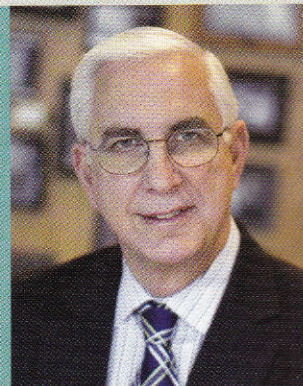
"The Center is helping us attack the major causes of mortality in the world, and it's creating synergies to make us more effective in saving lives."

—Michael J. Klag, MD, MPH, Dean, Bloomberg School of Public Health

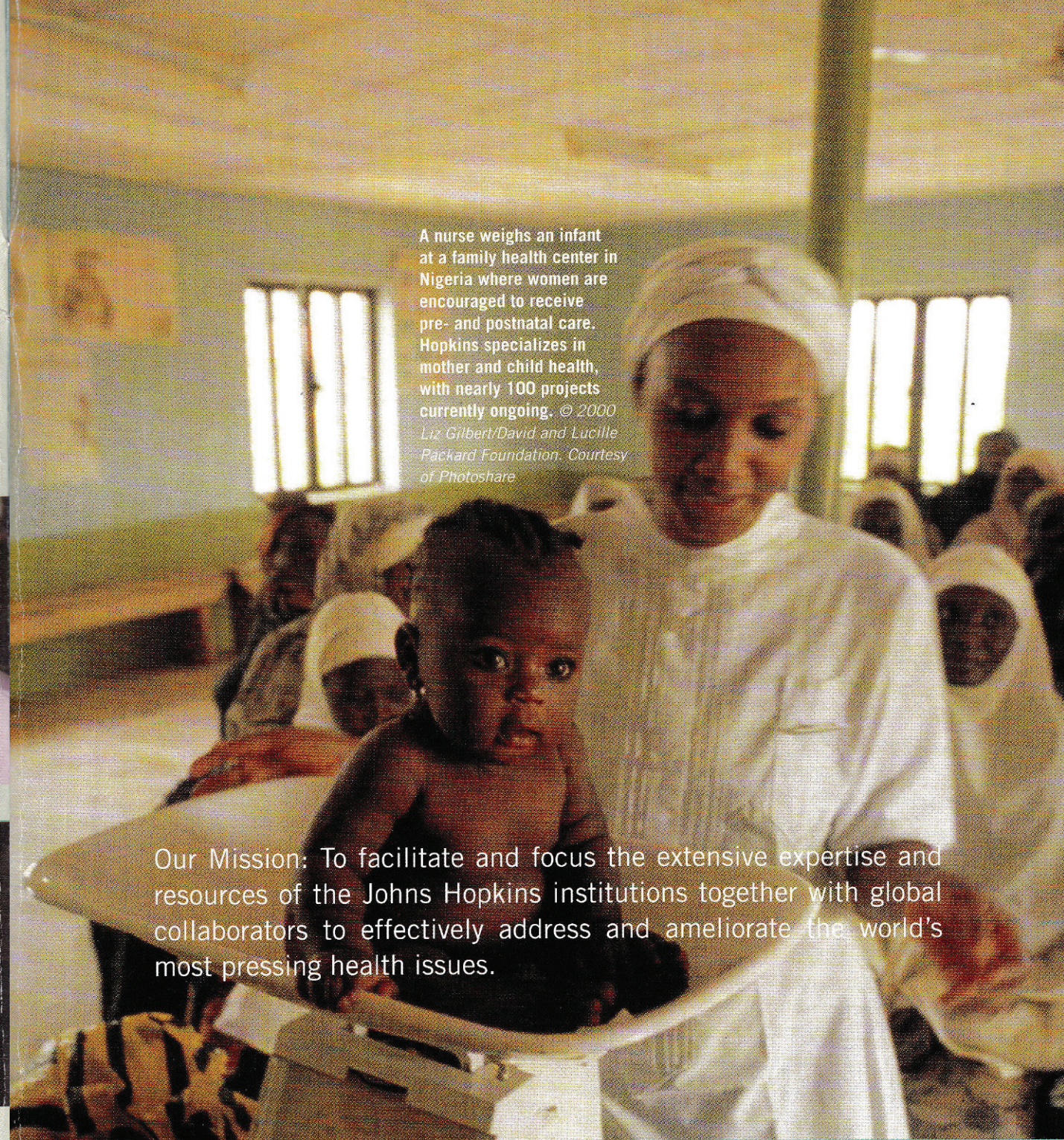


"The fusion of the University's expertise, leadership, and resources is resulting in a uniquely Hopkins enterprise to address international health problems. While the challenges are daunting, I have no doubt that the Center will play a major role in helping improve the health and lives of people throughout the world."

—Edward D. Miller, MD, Dean, School of Medicine



A nurse weighs an infant at a family health center in Nigeria where women are encouraged to receive pre- and postnatal care. Hopkins specializes in mother and child health, with nearly 100 projects currently ongoing. © 2000 Liz Gilbert/David and Lucille Packard Foundation. Courtesy of Photoshare



Our Mission: To facilitate and focus the extensive expertise and resources of the Johns Hopkins institutions together with global collaborators to effectively address and ameliorate the world's most pressing health issues.



The growth of the world's population and its effects on traffic congestion, air pollution, food supplies, and the substandard infrastructure of developing countries are only several of the many topics being analyzed by Hopkins researchers concerned with environmental influence on health problems. © 2006 Kunle Ajayi. Daily Independent. Courtesy of Photoshare

Transcending the Status Quo

Goals to Advance Global Health at Hopkins and Abroad

The Center for Global Health bases its programming on nine goals:

1. Solicit philanthropic support for global health-related projects, disease-specific research, and the Center's programming goals.
2. Coordinate and improve the quality of research grants in order to fund the University's global health work.
3. Partner with groups across the world to influence global health policy.
4. Maintain our website as a resource center, including a catalog of Hopkins global health research, news, funding, job listings, and more.
5. Provide young faculty members funding for innovative global health research, to strengthen their ability to obtain larger grants.
6. Support field opportunities for students to hone their global health skill sets while aiding those who most need help.
7. Provide full scholarships to qualified students, so they can have an immediate impact on global health after graduation.
8. Develop and integrate global health concepts into the curriculum across the University.
9. Provide financial and resource support to global health-related organizations and programs on campus to increase awareness and enhance Hopkins' global health education offerings.

GLOBAL
HEALTH
ACTIVITY

FACULTY
SUPPORT

STUDENT
SUPPORT

EDUCATIONAL
ACTIVITY



A mother and child in Honduras enjoy water pumped from a community water tank. Many communities are receiving clean water thanks to Hopkins programs dedicated to water purification technologies. © 2005 Todd Shapera, Courtesy of Photoshare



Women in Nepal discuss health practices with the aid of a comic book and a radio program. Hopkins health communications and marketing programs such as this one expand the reach of health messages into rural communities. © 2005 Saroj Nepal/HCP Nepal, Courtesy of Photoshare



Adolescent girls in Zambia participate in a dance during an event promoting HIV/AIDS prevention. HIV/AIDS is a particular area of expertise for Hopkins, with over 150 projects in progress around the globe. © 2005 Jennifer Orkis/CCP, Courtesy of Photoshare

Transcending the Status Quo Through Knowledge and Communication

Coordination of Global Health Activity

GLOBAL
HEALTH
ACTIVITY

Goal 1: Solicit philanthropic support

The Center for Global Health solicits and directs funding to support global health-related projects and disease-specific research. We match donor interests with the appropriate faculty members to maximize the health benefits of each grant or contribution.

Goal 2: Coordinate and improve the quality of research grants

To improve the quality of every grant we submit, we assist the faculty in defining and sharpening their goals and objectives and identifying collaborators both at Hopkins and throughout the world who can contribute added dimensions to their research. We also serve as a managing body that takes the lead in collaborative projects as necessary. Our involvement helps Hopkins secure funding for disease-specific and on-the-ground intervention research that saves lives.

Goal 3: Influence global health policy

The Center for Global Health aims to influence health policy on both a national and international level by providing increased visibility to clinical research and producing summary papers on current topics. We have also partnered with other universities to compile each organization's collective knowledge and make it accessible to today's policy leaders.

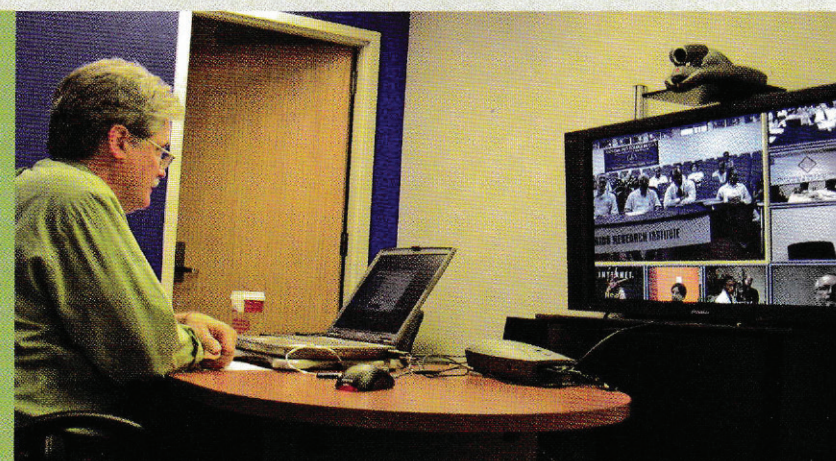
Goal 4: Maintain our website as a resource center

The Center's website serves as an electronic resource center for all involved in global health. It features a searchable catalog of all global health faculty projects across the University, as well as a calendar of global health events, headlines from around the world, funding and fellowship opportunities, and an email newsletter that provides up-to-date global health content once a week. (www.hopkinsglobalhealth.org)



A health worker in the Philippines administers vitamin A drops to children in a poor community. Hopkins researchers are involved in a variety of projects around the world that provide nutrients and supplements to malnourished children. © 2005 Paul Jeffrey, Courtesy of Photoshare

Robert Bollinger, Jr., MD, MPH, the Director of the Center for Clinical Global Health Education, monitors an online training session. His Center provides distance education about HIV, sexually transmitted infections, and tuberculosis to clinicians in resource-limited settings in the Democratic Republic of the Congo, India, Ethiopia, Tanzania, Uganda, and Zambia. © 2008, Courtesy of Center for Clinical Global Health Education



Director Thomas Quinn, MD, MSc, Associate Director Chris Beyrer, MD, MPH, and several students from the School of Medicine signed the Philadelphia Consensus Statement, aimed at increasing access to essential medicines in developing countries. © 2007 Courtesy of Thomas C. Quinn, MD, MSc



Transcending Financial Barriers for New Researchers

Faculty Support

FACULTY SUPPORT

Goal 5: Provide funding to young faculty members

To encourage faculty specialization in global health and to increase competitiveness for larger awards, the Center provides \$50,000 awards each year to deserving new faculty members to complete pilot research. To win larger grants from government agencies, faculty members are required to furnish data that proves their ideas will be successful in application. New investigators often lack the means to compile this data. By receiving financial support from the Center, grant winners can conduct research that validates their ideas and allows them to receive larger grants to sustain their research. Faculty members are selected for the Center's awards based on innovation in their research proposals, their likely impact on global health, and the likeliness of being funded for long-term impact.

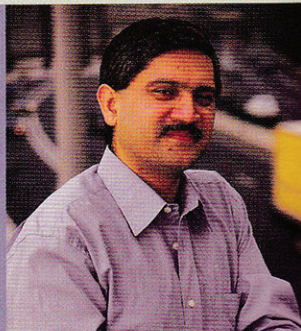
"Big ideas start in small ways. The faculty pilot grant that we received from the Center for Global Health is enabling us to study a little-explored but potentially major factor in the African AIDS epidemic: the role of HIV-related kidney disease in determining morbidity and mortality. This pilot data will facilitate the design of screening and interventional approaches to prevent and ameliorate HIV-related kidney disease."

—Gregory Lucas, MD, PhD, Faculty Grant winner



"The pilot grant is going to be critical in developing a new line of research in disabilities in the developing world—especially Africa. Measuring non-fatal health outcomes is a challenge, and this type of support will allow us to develop and pilot-test new methods. I hope that this will be the start of a new stream of work and capacity development in Africa from Johns Hopkins."

—Adnan Hyder, PhD, MPH, MBBS, Faculty Grant winner



A group of women in Zambia plan a community garden to provide nutritious food and to generate income for themselves and their children. Many Hopkins personnel are focused on setting up sustainable programs such as this one.

© 2007 Nathaniel Segaren, Courtesy of Photoshare



At left, children prepare to sleep under their bed net, a common way to avoid mosquitoes carrying malaria. At right, a child is tested for the HIV virus. These two diseases plus tuberculosis are the most researched infectious diseases by Hopkins personnel. © 2007 Gilbert Awekofua (left) and Nathaniel Segaren (right), Courtesy of Photoshare



A home care nurse measures the blood pressure of a terminal cancer patient. Researchers also work on chronic conditions such as heart disease, cancer, and diabetes, which are becoming larger problems in developing countries. © 2007 Dr. D.P. Singh, Courtesy of Photoshare

Transcending Obstacles to Education

Student Support

STUDENT
SUPPORT

Goal 6: Support hands-on field opportunities for undergraduate & graduate students

In order for students to gain hands-on field experience, the Center offers Framework Program in Global Health awards each school year. These awards provide \$5,000 per student to travel to a developing country and complete a research project in the field. Each student works with a faculty mentor and has an immediate impact on those suffering from poor health. These awards also inspire students to return to the developing world upon graduation.

Goal 7: Provide full scholarships to qualified global health students

Every year, several promising public health students are awarded full tuition scholarships to the masters' programs at the Bloomberg School of Public Health. Recipient selections are based on the students' global health experience and future career aspirations. We also support students hailing from developing countries. With our financial support, they can come to Hopkins and receive a high-quality education that will enable them to impact the health of their homelands upon their return.



A mother holds her child in Bangladesh. Over one-third of Hopkins' global health projects are based in Asia. © 1995 Marsha McCoskrie/CCP, Courtesy of Photoshare

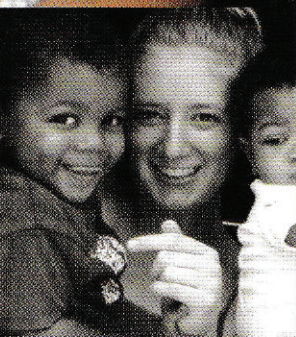
"The only way to learn about working in a developing country is to actually be there. While frustrating or slow at times, my experience in Lucknow, India, provided me with the context and insight for future work in global health. I learned so much about the local work culture, communication, and about public health generally."

— Jessica Shearer, Framework Program participant



"This scholarship is allowing me to attend a school with enormous opportunities for growth, both in and out of the classroom, and is making it possible for me to pursue my goal of working internationally with children in poverty, all without worrying about the financial burdens that would have hung over me."

—Allison Lind, Scholarship winner



"The Global Health Scholarship has given me the opportunity to study public health at the best school in the world...my dream has been surpassed. I hope to network with the faculty here at Hopkins and work with those who have gone ahead of me to deal with these health problems, especially in Africa, and specifically, my home country of Uganda."

—Lillian Aaca Okui, MD, Scholarship winner



"The well-rounded quality of this experience has taught me much more than I could have hoped any standard internship would provide, has exemplified the details that I had learned during my coursework at the Johns Hopkins School of Public Health, and has given me many skills that I will carry with me into future research endeavors."

—Andrea Wirtz, Framework Program participant



Transcending Barriers to Global Health Instruction

Educational Activity

EDUCATIONAL
ACTIVITY

Goal 8: Develop and implement global health curriculum at Hopkins

The Center's staff is working on curriculum development across all of the health schools at Hopkins to increase the global health course offerings for medical, nursing, and public health students. In addition, we have also teamed with other universities to develop educational programs with an increased global health emphasis. Both in-the-classroom and in-the-field-methods are being developed in order to train more well-rounded global health leaders.

Goal 9: Support global health-related organizations and programs on campus

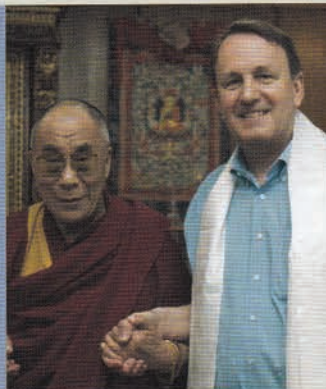
The Center works with student groups and other centers across the University in support of their global health-related educational programs. We have provided financial and promotional support to activities ranging from World Tuberculosis Day, World AIDS Day, World Children's Day, Health and Human Rights Week, and the Hopkins All-University Seminar on Africa. We also host speeches by global health leaders and co-sponsor global health-related film screenings, all to enrich the education of the faculty and students at Hopkins.

"The Center for Global Health has been a consistent support in our efforts to host world-renowned human rights leaders at Hopkins. Being a student group with limited financial resources, the Center's sponsorship has helped us to successfully organize many events and reach a wider audience. They have been invaluable in our efforts to promote the mission of our organization."

—Thoai Ngo, student leader, Health and Human Rights Student Group, Bloomberg School of Public Health



"The Center for Tuberculosis (TB) Research is particularly grateful for collaboration with the Center for Global Health on our World TB Day events and our lecture on eastern medicine given by the personal physician to His Holiness the Dalai Lama. The Center provided us increased visibility and boosted our attendance." Pictured are Center for TB Research Director Richard Chaisson with His Holiness at their meeting to discuss TB control in the Tibetan community in exile. © 2008 Richard Chaisson



Children attending a health festival in Madagascar hold a flag to remember those lost to HIV/AIDS. © 2008 Madeleine Pryor, Courtesy of Photoshare



Nigerien children pose with the School of Medicine's Sheila West, who is the lead investigator at Hopkins for the Partnership for the Rapid Elimination of Trachoma (PRET). Trachoma is a blinding infectious disease that is both highly contagious and extremely prevalent in Africa. The Center for Global Health serves as the managing body for PRET. © 2008 Sheila West

Transcending Disciplines for a Healthier World

The University's Many Specialties

The Center for Global Health partners with experts across the University to address the world's most pressing health challenges. Currently, over 40 centers, departments, and institutes exist at Hopkins, each specializing in different areas of global health. Together, we will work to realize a healthier world.

Hopkins Global Health Organizations

Bloomberg School of Public Health

Bill & Melinda Gates Institute for Population & Reproductive Health
 Center for Clinical Trials
 Center for Communication Programs
 Center for Emerging Infectious Diseases
 Center for Epidemiology & Policy
 Center for Health & Human Rights
 Center for Human Nutrition
 Center for Immunization Research
 Center for Refugee & Disaster Response
 Center for Water & Health
 Department of International Health
 Fogarty AIDS International Training & Research Program
 Hopkins Population Center
 Institute for Global Tobacco Control
 Institute for International Programs
 Institute for Vaccine Safety
 International Center for Advancing Neonatal Health
 Malaria Research Institute
 Office for Critical Event Preparedness & Response
 PneumoADIP
 Welch Center for Prevention, Epidemiology & Clinical Research

Other Entities

Berman Institute of Bioethics
 Carey Business School
 Jhpiego
 Paul H. Nitze School of Advanced International Studies (SAIS)
 School of Education
 Whiting School of Engineering
 Zanvyl Krieger School of Arts & Sciences

School of Medicine

Center for AIDS Research
 Center for Clinical Global Health Education
 Center for STD Research, Prevention & Training
 Center for Tuberculosis Research
 Center for Viral Hepatitis
 Comprehensive Transplant Center
 Dana Center for Preventative Ophthalmology
 Department of Hospital Epidemiology & Infection Control
 Division of Infectious Diseases
 Johns Hopkins Medicine International
 McKusick-Nathans Institute of Genetic Medicine
 Point-of-Care Information Technology (POC-IT) Center

School of Nursing

Center for Collaborative Intervention Research
 Center for Health Disparities Research
 Center for Nursing Research
 Global Health Promotion Research Program
 Institute for Johns Hopkins Nursing
 Office of Global Nursing



Nursing students catch a lift during their public health mission trip to Haiti. Groups of students regularly travel from the School of Nursing to Haiti to hone their nursing skills in a developing world setting. Courtesy of School of Nursing

It Happened at Hopkins

Breakthroughs in Global Health

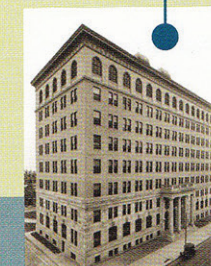
Thanks to the leadership of the University's forefathers—showcased on the next three pages—Hopkins has been a pioneer in health research for nearly a century. Here are some of the greatest global health-related breakthroughs Hopkins has achieved.

Timeline



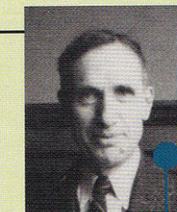
1916

Co-founded first School of Public Health; served as first director
 William Henry Welch



1922

Discovered vitamin D, leading to virtual elimination of rickets
 EV McCollum



1938

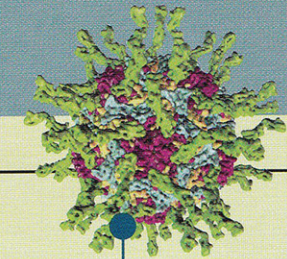
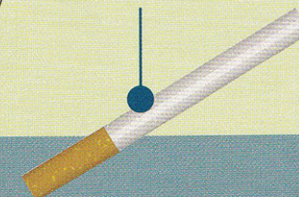
Devised ED50 as measure of drug effectiveness, still the standard today
 Lowell Reed

1937-1962

Advised World Health Organization (WHO) to make water and sanitation a top priority
 Abel Wolman

1938

Linked smoking to decreased lifespan
 Raymond Pearl



1940s and 50s

Identified three types of poliovirus, noting that an effective vaccine would have to defend against all three. Laid groundwork for subsequent development of the Salk and Sabin polio vaccines
 David Bodian, Howard Howe, Isabelle Mountain Morgan



1950s

Initiated international faculty exchanges with Asia around human population growth, bringing first public attention to this issue; developed family planning program/research center in West Pakistan
 Paul Harper

1950s

Correlated occupational exposures, particularly to chromium, to increased risk of disease
 Anna Baetjer



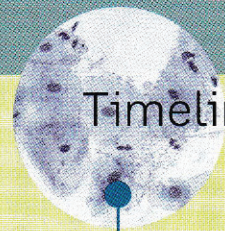
Left: © 2007 Nivedan Mangalesh P/SEA, Courtesy of Photoshare

Right: © 1994 Cheryl Groff, Courtesy of Photoshare



It Happened at Hopkins

Breakthroughs in Global Health



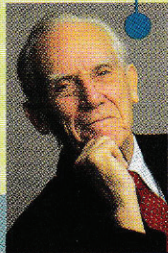
Timeline

1956-1962

Illustrated disease could be spread through drop nuclei
Richard Riley

1961

Founded the School of Public Health's Department of International Health, the first of its kind.
Carl Taylor



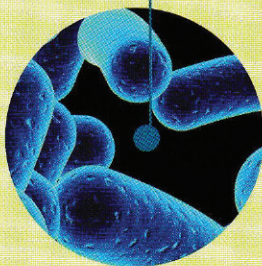
1967

Contributed to the formulation of an oral rehydration solution
Nathaniel Pierce, R. Bradley Sack, Norbert Hirschhorn, Dilip Mahalanabis, David Nalin



1971

Discovered enterotoxigenic *E. coli*, the most common bacterial cause of diarrhea in children in developing countries
R. Bradley Sack



1970s

Succeeded in population reduction by training women to educate others on birth control methods in developing countries
W. Henry Mosley

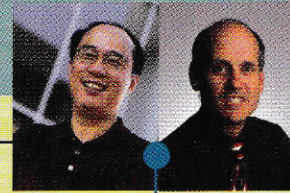


1986

Demonstrated that a 4-cent dose of vitamin A can save children's lives
Alfred Sommer, Keith West

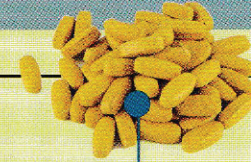
1973

Illustrated a diet rich in protein leads to healthier newborns
Bacon F. Chow



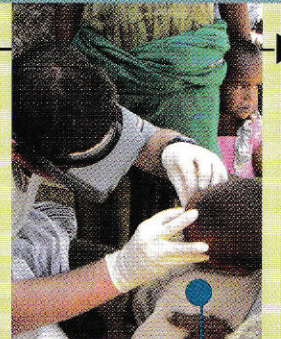
1986

Developed the General Estimating Equation, allowing biostatisticians to weigh multiple variables, like genes, age, and habits in the search for disease origins
Scott L. Zeger, Kung-Yee Liang



1995

Demonstrated zinc supplementation is effective for the prevention and treatment of diarrhea, resulting in a significant reduction in child mortality
Robert Black



1999

Demonstrated the effectiveness of mass antibiotic treatment for control of blinding trachoma
Sheila West, Thomas Quinn

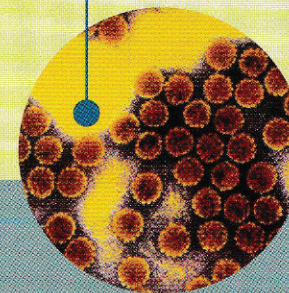
1986

Recognized long incubation period for HIV and correctly predicted a much larger epidemic than was being acknowledged by the medical field at that time
Ron Brookmeyer



1990s

Demonstrated cervical cancer linked to the sexually transmitted human papillomavirus, paving the way for diagnostic testing and the eventual vaccine
Keerti Shah



1999

Utilized nevirapine to prevent mother-to-infant transmission of HIV
Brooks Jackson, Laura Guay



2007

Demonstrated reduction of HIV transmission by circumcision
Ronald Gray, Maria Wawer

Left: © 2000 Liz Gilbert/David and Lucile Packard Foundation, Courtesy of Photoshare

Right: © 2004 Philippe Blanc, Courtesy of Photoshare



Left: © 2007 David Snyder, Courtesy of Photoshare

Right: © 2006 David Colwell, Courtesy of the Bloomberg School of Public Health



Global Health Research at Johns Hopkins

By the Numbers

The faculty, staff, and students at Johns Hopkins University are extremely dedicated to improving the health of the world in which they live. They devote a tremendous amount of time and energy researching in their labs and implementing interventions on the ground in developing countries, with the ultimate goal of ameliorating the world's most pressing health issues.

The Center for Global Health catalogs the University's global health work in a database accessible on our website (www.hopkinsglobalhealth.org) in order to provide a comprehensive view of Hopkins' global health activities. The data presented here shows the truly global footprint and multi-disciplinary focus of our work.

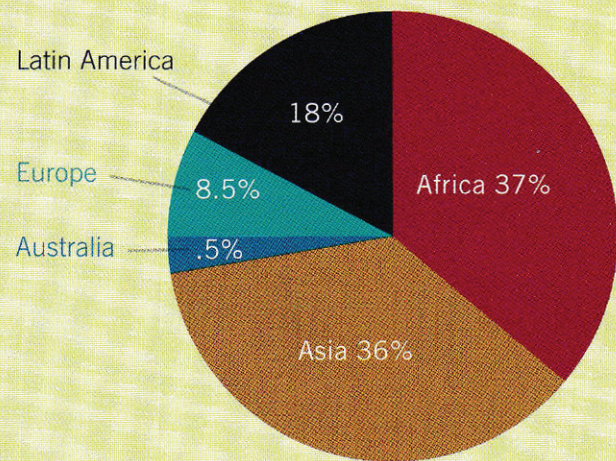
Focused on Global Health:*

- 370 faculty members
- 40 centers and institutes
- 494 projects
- 115 countries



5 Major Regions of Focus:*

One third of Hopkins' work is focused on Africa, another third on Asia, and the remaining on the rest of the developing world.



* As of July 2008

Food supplies are delivered by volunteers to rural villages during the 1998 floods in Bangladesh. Hopkins personnel have been very involved in disaster response, human rights, and refugee situations over the years. © 2007 Dr. Ahsanul Kabir, Courtesy of Photoshare



A wide variety of topics are being researched across Hopkins:*



Please note: Many projects fall into multiple categories and are counted multiple times in this chart.

Transcending Sickness and Suffering

The Future of Global Health at Hopkins

The Center for Global Health's strategic plan for the upcoming years is an aggressive one. Our number one goal is to raise funds to continue the important work being done by the faculty, staff, and students at Johns Hopkins University. With increased financial support, we can initiate and support more disease-specific research projects, impact national and world global health policy, award more grants for innovative faculty research, fund more scholarships and Framework grants, and increase the educational opportunities both on our Baltimore campus and throughout the world, in order to train the next generation of global health leaders.

Most importantly, we can save lives—adult and child alike—through our efforts.

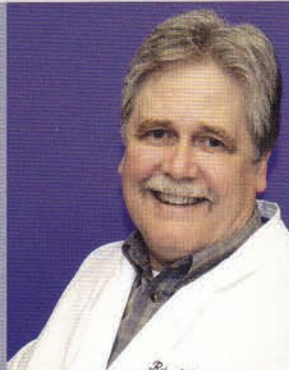
"The Center for Global Health encompasses so much more than just the basic science of infectious disease. Public health practice is vitally important in battling the spread of disease, and now with the rise of chronic disease in developing countries, education and capacity building also become much more important. We also support work in human rights, policy, and advocacy, which are irrevocably intertwined with the health of nations. The Center is poised to make a tremendous impact on multiple global health fronts."

—Chris Beyrer, MD, MPH, Associate Director of Public Health
for the Center for Global Health



"The name Johns Hopkins is known around the world for its quality medical care, and the experts here work hard to deliver high-quality, locally relevant clinical care and research training to the resource-limited regions of the world. The Center supports these educational efforts, because we recognize the need for developing countries to sustain their own health systems, while still having access to the most current of medical practice."

—Robert Bollinger, Jr., MD, MPH, Associate Director of Medicine
for the Center for Global Health



"As a leader in visionary thinking about global health issues, the Center for Global Health recognizes the important role the nursing profession plays in meeting the health care needs of people around the globe. Nurses are vital to the delivery of health services in developing countries, and the Center's collaboration with the nursing community to address the evolving changes and challenges in global health is unmatched."

—Nancy Glass, PhD, MPH, RN, Associate Director of Nursing
for the Center for Global Health



Your financial support is needed to ensure the sustainability and success of global health programs at Johns Hopkins University. Please call 410-516-7255 for information on how to support the Center for Global Health.

JOHNS HOPKINS
UNIVERSITY

JOHNS HOPKINS
UNIVERSITY

School of Nursing



JOHNS HOPKINS
MEDICINE

SCHOOL OF MEDICINE



JOHNS HOPKINS
BLOOMBERG
SCHOOL of PUBLIC HEALTH

Johns Hopkins
Center for Global Health
Hampton House 180
624 N. Broadway
Baltimore, MD 21205
Phone: 410-502-9872
Fax: 410-502-9570
globalhl@jhsph.edu

www.hopkinglobalhealth.org