Globalization of Academic Research In Health:

The Johns Hopkins Model

Thomas C. Quinn, MD, MSc
Director, Center for Global Health
Johns Hopkins University
Global Health

“Global Health is a field of study, research and practice that strives to achieve equity in health for all people. Global Health involves multiple disciplines within and beyond the health sciences, is a synthesis of population-based prevention with individual level of clinical care, promotes inter-disciplinary collaboration and emphasizes transnational health issues and determinants.”

University Consortium for Global Health, Sept 2008
The Global Community is Faced with Numerous Health Challenges

- Infectious Diseases
- Heart Disease
- Obesity
- Mental Health
- Accidents/Injuries
- Cancer
- Diabetes
- Aging
- Child Health
- Many Others

Total annual deaths: >57 million
Total annual DALYs: >1.4 billion
Global Examples of Emerging and Re-Emerging Infectious Diseases

- Vancomycin-resistant *Staphylococcus aureus*
- Cryptosporidiosis
- Multidrug-resistant tuberculosis
- Drug-resistant malaria
- Diphtheria
- SARS
- *E. coli* O157:H7
- H5N1 influenza
- Vancomycin-resistant *Staphylococcus aureus*
- Nipah virus
- Hendra virus
- Enterovirus 71
- Plague
- Human monkeypox
- HIV
- Rift Valley fever
- E. coli O157:H7
- Lyme disease
- West Nile virus
- Anthrax bioterrorism
- Whitewater arroyo virus
- Hantavirus pulmonary syndrome
- Dengue
- Yellow fever
- Human African trypanosomiasis
- Cholera
- Marburg hemorrhagic fever
- Ebola hemorrhagic fever
- Newly emerging
- Re-emerging/resurging
- “Deliberately emerging”
Threat to Global Health
The Tobacco Industry

Worldwide 4.9 million deaths per year due to tobacco-related diseases
Worldwide Obesity

- 1 billion adults are overweight
- 300 million adults are obese (BMI > 30)
- 22 million children are overweight
- Increases the risk for coronary heart disease, type 2 diabetes, and certain cancers.
- Total economic cost of obesity is $117 billion per year (incl $50 billion in avoidable medical costs)
- 5 percent of total annual health care expenditures
"Africa carries 25% of the world's disease burden yet has only 3% of the world's health workers and 1% of the world's economic resources to meet that challenge."

See Essay Focus page 691
Global Health Initiatives

- There is unprecedented interest in global health among faculty and students in North American Universities and a proliferation of academic centers of global health.
- “Flexner 21” report for the 21st century has been initiated, examining the human resource needs for health and how they relate to global health, medicine, nursing, public health, and health systems.
Collaboration between University faculty and students is all about people, their passion and their long-term commitment to make a difference. It is an exchange of ideas and cultures to enrich one another.
Principles of for North-South Collaborations

- The goals must be defined and specific;
- Defining and agreeing on goals and metrics of success at the beginning;
- The relationship must be based on ethical and trusting principles.
- Respect and understanding of differences in culture and perspective;
- Research and training should be based on shared interests and problems;
- The collaboration must be advantageous to both parties;
Principles of for North-South Collaborations

- It must be long-term partnership (10-20 years or more);
- The approach to training, research, and patient care should be comprehensive;
- The collaboration must build local capacity and strengthen institutions;
- Health services strengthening and workforce training;
- Transparency generally, and with budget issues specifically;
- The need to involve southern partners to be involved throughout the design, implementation, management, and reporting of projects;
- Equity in exchange of students and faculty;
Top 20 Universities: International Efforts

Building A Global Health Center At Johns Hopkins University
The Center for Global Health

**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.
IT HAPPENED AT HOPKINS
Breakthroughs In Global Health

Hopkins researchers were hard at work combating global health issues long before the term ‘global health’ was coined... Some of the greatest breakthroughs HAPPENED AT HOPKINS. Learn more about Hopkins’ most recent discoveries throughout this guide.
Center’s Goals

- Provide faculty members with funding
- Support field opportunities for students
- Provide full scholarships
- Develop and integrate global health concepts into the curriculum
- Provide financial and resource support to global-health related organizations
Center For Global Health Affiliated 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 and Policy
- Center for Health & Human Rights
- Center for Human Nutrition
- Center for Immunization Research
- Center for Refugee & Disaster Response
- Center for Water & 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

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 and 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 on Health Disparities Research
- Center for Nursing Research
- Global Health Promotion Research Program
- Institute for Johns Hopkins Nursing
- Office of Global Nursing

Other Entities
- Berman Institute of Bioethics
- JHPIEGO
- Paul H. Nitze School of Advanced International Studies (SAIS)
The Center for Global Health website includes a variety of tools for visitors:

- Global Health Projects Map/Search
- Global Health news from Hopkins/world
- Events
- Funding Opportunities
- Announcements
- Free email newsletter
Hopkins’ World Presence

370 faculty members
40 centers & institutes
494 projects
115 countries

- Asia: 36%
- Africa: 36%
- Europe: 9%
- Australia: 1%
- Latin America: 18%

Transcending Borders for World Health
13 Formal Exchange Programs

- Royal College of Surgeons-Ireland
- Trinity College-Dublin
- Guy’s, King’s and St. Thomas’ School of Medicine - London
- Goteborg University/The Sahlgrenska Academy- Goteborg
- Charite Medical School - Berlin
- Erasmus University Rotterdam
- National & Kapodistrian University of Athens Medical School
- Technion Faculty of Medicine - Haifa
- Erasmus University Rotterdam
- The University of Tokyo
- Keio University School of Medicine- Tokyo
- Nagoya University- Nagoya City
- Saitama Medical School- Saitama
Hopkins’ International Students

The 123 shaded nations represent 2,412 international undergraduate and graduate students enrolled in all Johns Hopkins divisions in Fall 2005.

JOHNS HOPKINS
International University Students

Number of Students
1 - 5
6 - 20
21 - 50
51 - 100
101 - 300
402

Maps by mymaps.com

JOHNS HOPKINS CENTER FOR GLOBAL HEALTH
Transcending Borders for World Health
Global Health Travel Grants

Number of Applications and Awards

Spring 2006  Fall 2006  Spring 2007  Fall 2007  Spring 2008

Applications  Awards
Now in its sixth decade of operation, the SAIS Bologna Center was founded as the European face of SAIS Washington, D.C. and since then has become one of the top American graduate schools for international affairs in Europe.
Established in 1986, The Johns Hopkins University-Nanjing University Center for Chinese and American Studies was created to promote a mutual understanding to improved relations between China and the West, by bringing people together for an extended period of intense exposure to each other's history, culture, contemporary thought and society.
FIRST DOCTORAL STUDENTS GRADUATE FROM JOINT HOPKINS/PUMC NURSING PROGRAM

Posted: 7/10/2008

Through a joint program between the Johns Hopkins University School of Nursing (JHUSON) and the Peking Union Medical College (PUMC) School of Nursing, five doctoral students are the first Chinese nurses to receive a nursing PhD from a Chinese university.

The first graduates are Feng Li, He Zhang, Liang Tao, Liang Xiaoxun and Li Yang. They received their degrees in Beijing on July 9, 2008. The five new PhD nurses are either current faculty members at hospital nurse executives at PUMC. All will eventually become faculty in the PhD Program at PUMC.

The joint JHUSON-PUMC program, funded by the China Medical Board of New York, Inc., was established in 2004 with the goal of bringing China and its health care system an internationally recognized, doctoral-level model for Chinese nursing education. "This is an historic moment in the healthcare of China and reflects on the breathtaking timeline from the planning to outcomes of this program," says Marie T. Nolan, PhD, MPH, RN, associate professor and director of the JHUSON-PUMC Doctoral Program Partnership.

Dr. Nolan and Dr. Martha N. Hill, PhD, RN, FAAN, Dean of the JHUSON,
Hopkins’ Offshore Campuses

Johns Hopkins in Singapore

www.imc.jhmi.edu

Mission: In the tradition of Johns Hopkins’ excellence in Research, Education and Patient Care, we, as a team of dedicated professionals, are committed to providing the highest quality of healthcare in Asia and meeting the unique needs of our patients and their families.