A Model for International Collaborations

Thomas J. Coates PhD
Co-Director, UC Global Health Institute

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UCGHI Vision

The University of California Global Health Institute (UCGHI) will integrate and leverage the diverse intellectual capacity of faculty on the ten UC campuses to improve the health of vulnerable people and communities in California and world-wide.
UCGHI Mission

To create a unique, multi-campus, transdisciplinary program that provides:

• **Education** for training future leaders to serve California and the world
• **Research** that galvanizes science across multiple disciplines to address global health problems
• **Partnerships** for action-oriented collaborations and interventions that improve health of vulnerable populations everywhere
• **Innovative uses of technology** to enable collaboration across campuses, learning across the globe, and research in remote settings
Why?

• 2006 University of California Long-range Guidance Team recommends that:

  A competitive university of the 21\textsuperscript{st} Century should have:
  1. Global reach
  2. Trans-disciplinary approach to education and research

• Unprecedented enthusiasm for global health in US universities

• Global health is a significant economic engine in CA
• $49.8 billion generated by global health activity annually

• 350,000 high-paying jobs created, paying $19.7 billion in wages

• 7% of California State Tax - $8 billion contributed by GH business

• $4 billion of academic business activity
Conception

• 2005: UC Long-term Guidance Committee

• 2006: All-Campuses Exploratory Committee
  ➢ Recommends UC-Wide Global Health Initiative
  ➢ Organization: UC School of Global Health
Gestation

• 2007: UCOP Planning Grant

• 2007-2009: Planning
  ➢ All-Campuses Planning Committee
  ➢ Senior Advisory Committee
  ➢ External Scientific Advisory Committee
Delivery

• Nov. 2009: Launch of UCGHI
• Initial Components:
  – Administrative Core
  – 3 Centers of Expertise (COEs)
  – Educational Program
  – ICET (information, communication and education technology)
Governance
UC President

Senior Vice President for Health Affairs

Executive Committee
Board of Directors

Administrative Leadership
Haile Debas, Director; Thomas Coates, Co-Director

Leadership Committee

One Health
Pat Conrad, Anil Deolalikar

Migration & Health
Marc Schenker, Steffanie Strathdee

Women's Health & Empowerment
Craig Cohen, Paula Tavrow

Education Committee
ICET Committee
Student Committee
UCGHI Educational Programs

• One year professional masters
• Two year research oriented masters
• Pre- and postdoctoral as well as faculty fellowships
• Distance learning courses
• Institutes and workshops
Educational Programs: Two Year Research Oriented Masters

1. Leadership and professional ethical behavior
2. Knowledge and procedural skills
3. Communication skills
4. Finance and economics
5. The context of global health
6. Research and methods of discovery
Educational Programs: Two Year Research Oriented Masters

7. Health equity and social justice

8. Culture and health

9. Assessment and life-long learning practices
Educational Programs: Faculty and Student Fellowships

- COE on Women’s Health and Empowerment competed successfully for Fogarty fellowship program
- Includes medical, social, behavioral, and legal scholars
- Anonymous donor has pledged substantial resources to support additional fellowships
- Fellowships will support strategic missions of the Centers of Expertise
Educational Programs: Potential for International Collaborations

- Collaborative joint degree programs
- Collaborative joint fellowship programs and faculty/student exchanges
- Joint distance learning courses
- Joint institutes and short courses
Research

• Bring together experts from different disciplines
• Be innovative and transformational in solving a major global health challenge
• Translate discoveries and policies into large-scale action
• Establish partnerships
• Train future leaders and build capacity in the Global Health workforce
Research
Potential for International Collaborations

• Involve, from the outset, investigators and institutions from at least one other country and preferably several other countries

• Project Accept (HPTN 043) involves investigators from 5 US institutions, and also from South Africa, Tanzania, Thailand, Zimbabwe, India, and the Czech Republic
Partnerships

- Bring together experts from different disciplines
- Be innovative and transformational in solving a major global health challenge
- Translate discoveries and policies into large-scale action
- Establish partnerships
- Train future leaders and build capacity in the Global Health workforce
Partnerships
Potential for International Collaborations

Should the UC GHI be expanded to include other institutions in other countries?
Centers of Expertise

Three COEs form the foundation of the UCGHI transdisciplinary education, research and partnership programs:

1. Migration and Health
2. One Health: Water, Animals, Food and Society
3. Women’s Health and Empowerment
COE Goals

• Bring together experts from different disciplines
• Be innovative and transformational in solving a major global health challenge
• Translate discoveries and policies into large-scale action
• Establish partnerships
• Train future leaders and build capacity in the Global Health workforce
5th Summer Institute on Migration and Health
5o. Curso Internacional sobre Migración y Salud

San Diego, California
May 11-13, 2010
One of the largest mobilizations of government agencies and community organizations to improve the health of underserved Immigrants and migrants of Latin American origin living in the U.S. and Canada, as well as those living in the communities of origin.

- 1,000,000 Persons reached
- 13,000 Volunteers
  - Health fairs, workshops, insurance enrollment, etc.
- 35 States in U.S., 3 provinces in Canada
- 141 Consulates in the United States from Mexico, El Salvador, Guatemala, Honduras, Ecuador, Peru, and Colombia.
Research and public policy publications
Extramural research grants

- A Bi-national Training Program to Improve Social Justice and Health in the Mexico-US border Region (awarded), USAID-Mexico/HED, 2010-2015, $3.7 million (S. Strathdee, P.I.)

- Sex Trafficking and HIV Vulnerability among Female Sex Workers along the Mexico-U.S. Border, PIMSA, awarded $45,000 (S. Strathdee and G. Rangel, Co-PIs)

- Outreach Campaign on H1N1 Influenza for Hard-to Reach Latino Populations in California, CDC, 3 – 8/2010, awarded $880k (X. Castaneda, P.I.)

- The California Consortium for Post-Doctoral Training in Migration and Health, Framework Programs for Global Health Signature Innovations Initiative, NIH/R24, $608k, resubmit (M. Schenker, S. Strathdee, Co-PIs)
COEMH contributions to one year masters program, 2010-11

• **201A: Foundations of Global Health**
  Includes 4 lectures by COEMH faculty, including:
  -- Overview lecture on migration and health
  -- 3 lectures/seminar discussions on global migration patterns,
      occupational/environmental health issues among migrant
      workers, health care reform impacts on immigrant populations

• **Field placements** for Master’s students in migrant-sending
  communities and destination communities, NGOs

• **Workshop on Information, Communication and Education Technology** to enhance online education programs
  (April 28-29, 2010)
Integrating Activities at 10 Campuses

Steering Committee
1 representative from each of 10 campuses

N. California Hub
UCD
Director: Schenker
Assoc. Dir: Castaneda

S. California Hub
UCSD
Director: Strathdee
Assoc. Dir: Cornelius

Education Working Group
Leslie Wilson, UCSF
Michael Rodriguez, UCLA

Research Working Group
Clair Brindis, UCSF
Frank Bean, UCI

Partnerships Working Group
Xochitl Castaneda, UCB
Robin DeLugan, UCM
Lead Faculty – Northern California

Marc Schenker, UC Davis
Dept. Public Health Sciences
(Co-Director, COEMH)

Xóchitl Castañeda, UCB
Health Initiative of the Americas
School of Public Health

Claire Brindis, UCSF
Philip R. Lee Institute for Health Policy Studies

Robin DeLugan, UCM
Anthropology Department

Patricia Zavella, UCSC
Latin American and Latino Studies Department
Lead Faculty – Southern California

Steffanie Strathdee, UCSD
Global Health Sciences
(Co-Director, COEMH)

Wayne Cornelius, UCSD
Global Health Sciences
(UCGHI Co-Director/Education)

Frank D. Bean, UCI
Sociology Department

Michael Rodriguez, UCLA
Family Medicine Department

Juliet McMullin, UCR
Anthropology Department

David Lopez-Carr, UCSB
Geography Department
Recent Faculty Recruitments

UCSD: Anita Raj, Ph.D. (Psychology)
Expertise: health effects of intimate partner violence among refugees (joining in July 2011)

UCSD: Jay Silverman, Ph.D. (Psychology)
Expertise: health-related consequences of international sex trafficking (joining in July 2011)

UCB: Seth Holmes, M.D., Ph.D. (Med. Anthropology)
Expertise: migrant farmworker health, indigenous Mexican migration to the U.S. (joining in July 2011)
Planned Future Activities

• Development of migration track for proposed UCGHI multi-campus M.S. in Global Health

• Collaborative research by faculty across campuses and disciplines

• Policy briefings for elected officials, media, advocates and the public in California and Washington

• Expand educational offerings in California and globally

• 2nd Annual COEMH Research Training Workshop & Summer Institute: spring 2011

• No. California IHIG Global Health Conference: Davis, April 9, 2011

• UC-wide inventory of faculty and courses on immigrant health
Planned Research Agenda

- How international migration shapes health outcomes and health care-seeking behavior in migrants’ communities of origin and destination
- Child and women’s health in immigrant families
- Occupational and environmental health issues affecting migrant populations
- Chronic, infectious and emergent health conditions affected by voluntary and forced migration, including mental health
- Health care delivery and health policy choices affecting migrants’ access to care (Signature research project)
Planned Educational Agenda

- UCGHI M.S. in Global Health (develop migration & health track)
- Annual Interdisciplinary Research Training Workshop
- Annual Summer institute on Migration and Health - expand
- Two new courses on migration and health at UCB, UCD
- Two new distance-learning courses on migration and health (UC Davis): expand to 3 courses (certificate program)
- Mexican Migration Field Research and Training Program (UCSD) – refocus on migration and health issues
- T32 training grant submission focused on migration & health
Women’s Health & Empowerment
Center of Expertise

MISSION STATEMENT

We envision a world in which all women and girls are empowered and healthy. Our mission is to promote justice, equity and scientific advances to reduce gender and health disparities globally.

Grounded in human rights principles, our approach is interdisciplinary and transformative.

Through innovative research, education and international collaboration, we build and strengthen the capacity of the next generation of leaders in women’s health and empowerment.
Core Areas of Interest

- Assuring safe motherhood
- Reducing violence against women
- Improving access to family planning and reproductive technologies
- Advancing sexual and reproductive health and rights
- Preventing HIV/AIDS
- Reducing environmental threats to women’s health
Women’s Health & Empowerment Organization

UC Global Health Institute (UCGHI)

WHE Leadership Core

WHE Co-Directors: Craig Cohen, MD, MPH (UCSF)
Paula Tavrow, PhD, MSc, MALD (UCLA)

Co-Director Alternates: Nancy Milliken, MD (UCSF)
Lara Stemple, JD (UCLA)

Education Representative: Amy Levi, CNM, PhD (UCSF)

Standing Committee Co-Chairs

Education Committee
Co-chairs: Amy Levi, CNM, PhD (UCSF), Deborah Mindry, PhD (UCLA)

Research Committee
Co-chairs: Shari Dworkin, PhD (UCSF), Ndola Prata, MD, MPH (UCB)

Knowledge Dissemination Committee
Co-chairs: Monica Gandhi, MD, MPH (UCSF), Paige Passano, MPH (UCB)

Fundraising and Partnerships Committee
Chair: Philip Darney, MD, MSc (UCSF)

Steering Committee
Focal points from each of the campuses

COE Coordinator
Lindsey Zwicker, JD, MPP

Student Committee
Women’s Health & Empowerment
Contribution to the Field

Key Components

- Focus on the interplay and interconnectedness of women’s empowerment and health
- Conduct research on women’s empowerment and health; connect research with education and training of new leaders

Inter-Disciplinary Approach

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<td>✓ Public Health</td>
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<tr>
<td>✓ Arts &amp; Culture</td>
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<tr>
<td>✓ Psychology</td>
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<td>✓ Political science</td>
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Women’s Health & Empowerment
Main Accomplishments

Awarded Fogarty Fellowship Grant (2010-2011):

✓ PIs: Lara Stemple, UCLA School of Law & Craig Cohen, UCSF School of Medicine
✓ 10 applicants, of whom five fellows were selected from UCLA and UCSF.
  - Law (2), Public health (2), Anthropology (1)
✓ Education and skills development for legal scholars and post-docs
✓ One year program
✓ Team of mentors: 1) empowerment, 2) health, and 3) in-country
✓ Funds for each fellow to conduct innovative research in the field
✓ Biweekly WIP & seminar series
Women’s Health & Empowerment
Planned Research Activities 2010-2011

✓ Launching of peer review system for grant proposals

✓ Development of compendium of empowerment methods and measures

✓ Update website to include brief bios and research backgrounds of UC faculty members affiliated with WH&E COE

✓ Website as repository for literature reviews, article lists, grant opportunities

✓ Three one-day meetings on selected WH&E topics, with proposal writing plans
WH&E Research Project: **Shamba Maisha**
*(ranked in top 1% by NIH)*

**Interdisciplinary Team**
- Epidemiology
- Medicine
- Agriculture
- Microfinance
- Gender empowerment
- Technology

![Figure 2](image-url)
Women’s Health & Empowerment
Planned Education Activities

Seminars for one year Masters in Global Health:

✓ November 29, 2010
Introduction to Gender Inequalities and Women’s Health
Amy Levi (UCSF), Deborah Mindry (UCLA), and Sara Newmann (UCSF).

✓ January 3, 2011
Maternal Mortality: Global Context
Suellen Miller (UC Berkeley) and Amy Stenson (UCLA)

✓ January 10, 2011
The Economic Dimensions of Women’s Health
Shari Dworkin (UCSF) and Megan Dunbar (UCLA)

✓ January 24, 2011
Gender, Health and Human Rights
Lara Stemple (UCLA) and David Eisenman (UCLA)
Women’s & Empowerment
Planned Knowledge Dissemination Activities

✓ Development of a case study book (with UC Press)
  – Call for abstracts yielded 21 submissions
  – 8 submissions chosen. May commission more
  – Will be multi-media.

✓ SWOT analysis
  ✓ Performed with COE members at retreat
  ✓ Development of action plan for addressing threats and building on opportunities

✓ Enhance COE visibility and outreach
  ✓ Strategic participation in conferences (Women Deliver)
Women’s Health & Empowerment Fundraising Strategy

• Create new committee on fundraising and linkages
• Scan foundations to support core COE functions
  • Develop relationship with potential donors
• Work to brand WH&E COE
  • Logo, co-branding with other centers, e.g. Bixby
• Encourage investigator-initiated research proposals, and joint responses to RFAs
• Develop COE business plan
Roles of a marine host cycle and particle aggregation in transmission of zoonotic pathogens in coastal ecosystems
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OHC Fundraising Strategy

• Working with campus advancement and development offices at UCR and UCD to promote One Health Center among donor prospects.

• Preparing proposals for submission to some foundations to fund developing country scholars to visit UCR and UCD for short-term courses in *One Health*.

• Develop COE business plan.
NSF Training Grant

• OHC has just submitted a 5-year $2.8 million IGERT (Integrative Graduate Education & Research Traineeship) grant application to NSF for “Water SENSE – Water Social, Engineering, and Natural Sciences Engagement for Human Well-Being.”

• Will train 21 doctoral students to become multi-disciplinary water scholars.
Planned Education

✧ One Health Course - spring quarter

✧ One Health curricular development in MPVM/MPH, DVM and multi-campus Masters of Global Health

✧ One Health Case Modules computerized, interactive, reality-based problems tackled by One Health teams
One Health Research Project

- hand-washing-with-soap stations and educational campaigns
- poultry immunization to improve animal health and increase access to eggs and poultry meat for young children
- lipid-based nutrient supplements for home fortification of complementary foods for children under two

Improved complementary feeding of children 6-24 months of age:
- Eggs
- Supplement
Planned Research

“Impact and Cost-Effectiveness of the One Health Approach on Child Health and Nutritional Status in Uganda”
Vector Biology Research

• Peter Atkinson, Prof of Entomology, UCR
  – NIH/NIAID (2010-11) / $600,696 / “Small RNA Regulation of Transposons in Mosquitoes”

• Anand Ray, Asst Prof of Entomology, UCR
  – Gates Foundation Exploratory Grant (2010-11) / $100,000 / “A Novel Class of Long-Range Olfactory Repellants to Protect Against Malaria Transmission”

• David Lo, Distinguished Professor of Biomedical Sciences, UCR
  – NIH/NIAID (2010-12) / $504,894 / “Mucosal vaccination against Dengue virus infection”
The mission of the One Health Center (OHC) is to:

- assess and respond to global health problems arising from the human-water-animal-food interface, and
- design, implement, and evaluate practical, cost-effective, sustainable and integrated one-health solutions in collaboration with local partners.
Challenges and Opportunities

Program Oversight

– Are there administrative and academic senate review procedures that impede joint education programs?

– How can we facilitate approval of programs when administration and academic senates, both campus and system-wide, are limiting new programs in the current resource constrained environment?

– How can we manage through the firewall between self-supporting and state courses?
Challenges and Opportunities

Interdisciplinary Commitment

– How can we sustain an interdisciplinary approach?

– How can we engage the social sciences, humanities and the arts, as well as professional schools such as law, business, public health and public policy, in meaningful ways.
International Collaborations

– We are used to research collaborations, but what mechanisms can be used to have true collaborative partnerships between developed and developing country partners
– Can we develop joint degree programs?
– Can COEs be expanded to include developing country institutions as members of a COE?
– Can fellowship programs be expanded to include developing country partners?
Conclusions

• Paradigm shift in structure and approach
• Genesis was desire to solve major global health problems
• Major challenges in planning, in harnessing “the power and promise of ten” and in funding
• High enthusiasm, recognition of special moment in history
• Potential to put University of California at leading edge
• Potential to engage partners in novel ways