

## UVa's Trans-University Center for Global Health: Engaging Universities in Win-Win Collaborations

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Global Health Programs in Unversity Settings: What's Out There

ASTMH Symposium – Michele Barry December 9, 2008



## Dr. Barry's 3 Questions:

 How does ASTMH (ed & res) best relate to Global Health?

TID vs Nutrition, Disaster relief, ObGyn, CV, Neuro, Road safety

Why and how do universities commit?

Personal energies; invest in people; president buy-in; match/endow

 Ethics of Capacity bldg, res. Agendas, shared publ, grants, exchanges?

Privilege to collaborate on their agendas, with their leadership.

# **Key Elements in Win-Win Collaborations: Engaging Universities in Global Health**

## •What do universities offer global health?

Faculty & students seeking new knowledge; Science and scholarship; Understanding & solutions; Capacity building and collaboration around shared vision.

## What does global health offer universities?

Opportunities for learning and broadened perspective;

<u>Better</u> science and scholarship (research, teaching, service).

Tremendous societal resources reside in universities worldwide. Engaging universities in addressing health disparities will not only tap these resources for global health, but will also enhance their research/education/service mission, attracting the best and brightest leaders to build a culture of science and global perspective.

# **Key Elements in Win-Win Collaborations: Engaging Universities in Global Health**

- Articulate shared vision <u>Health</u> is a universal human value; human life is valued equally, each deserving a measure of basic dignity; thus Health provides a compass and a measuring stick; is both an end and a means (to development).
- Invest in people with state-of-art molecular/informatics tools & vision; to build a culture of science and global perspective.
- Engage DC and LDC institutions for mutual benefit
- Build sustained collaborations
- Engage all disciplines; thus president buy-in is key!



## UVa's Center for Global Health

### with Sustained International Collaborations:

ex: Brazil, Uganda, Ghana, S. Africa, Tanzania, China, Philippines, and Bangladesh

#### **Test of Nonverbal Intelligence (TONI)**



### **Both sides benefit (a "win-win")**

- Student <u>CGH Scholars</u> experience lifechanging work abroad (>50 this year from across 30 Depts)
- International CGH Fellows from abroad are trained here (100% of over 98 returning to become leaders and collaborators)
- New <u>curricula</u>, including courses, lectures, MPH and minor in Global Health, FIC Framework courses



## UVa's

## **Center for Global Health**

Addressing Global Health Disparities

### Founding Principles:

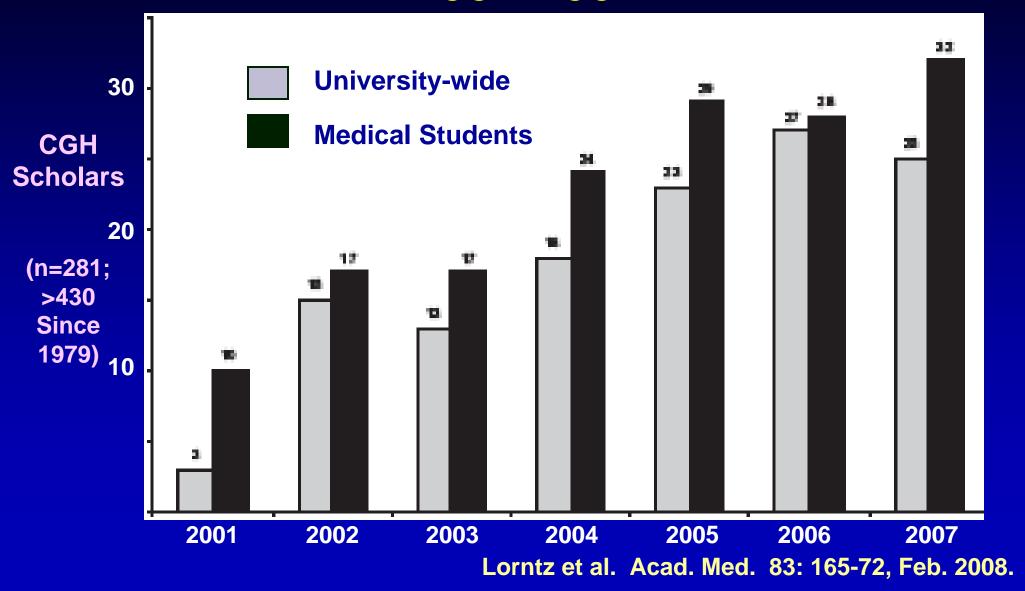
As a universal human value, Health transcends all cultural, geographic and political barriers to provide an unassailable compass for our 21<sup>st</sup> Century (Global Health Equity).

Disparities threaten survival; Tapping university resources can build capacity locally and globally.

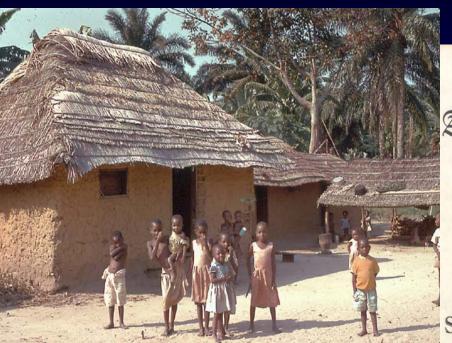
### Vision:

To engage students and faculty across all disciplines, enhancing our science and humanity by building sustained collaborations to alleviate the diseases of poverty.

# CGH-University and Medical Scholars 2001-2007



## **AAMC Fellowships that change lives:**



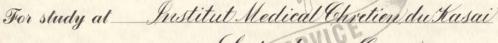
Association Of American Medical Colleges

presents this certificate to

Richard L. Guerrant

upon being awarded a ESEARCH

SMITH KLINE & FRENCH LABORATORIES
FOREIGN FELLOWSHIP FOR MEDICAL STUDENTS



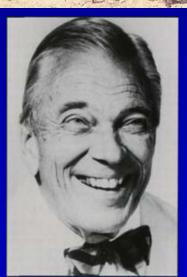
From June 10, 1964 to Aug 29, 1964



CHAIRMAN, SELECTION COMMITTE

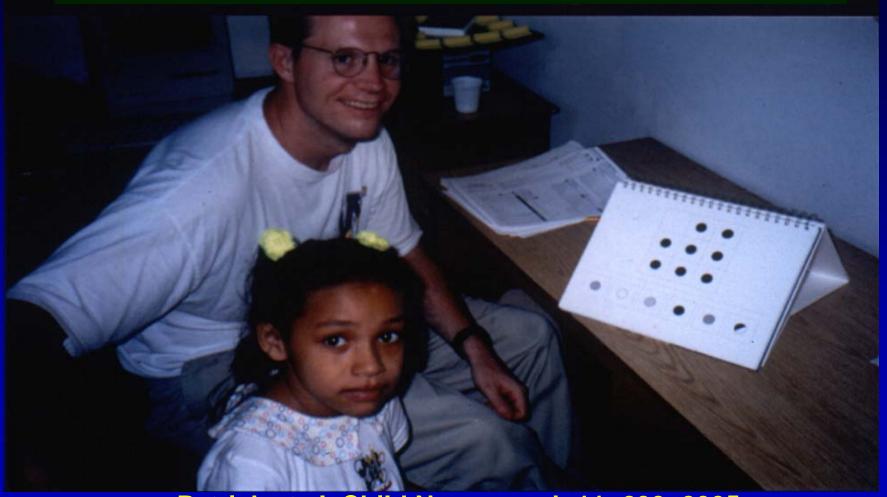
John K. Miller, M. J.

Holeut Benon



# The cognitive deficit most impaired with diarrhea is Semantic Fluency (as in Alzheimer's Disease)

(and ApoE4 protects children's cognition with heavy diarrhea; "thrift allele")



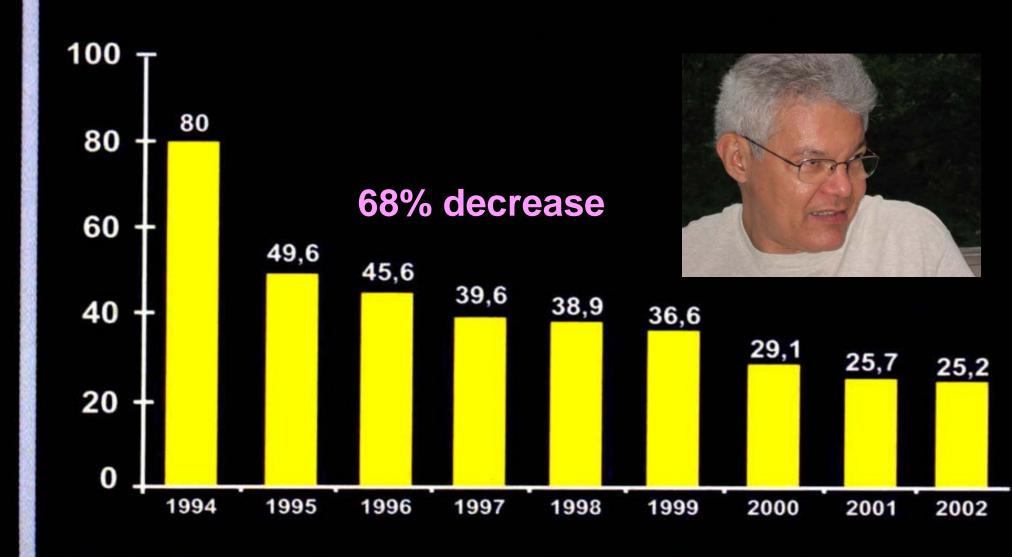
Patrick et al. Child Neuropsych 11: 233, 2005.
Oria R, Patrick P, Lima A, et al Pediatr Res. 57: 310, 2005.

## **Sustained UVa-CGH Collaborations & Fellows**

Country (University)	<b>Duration</b>	#Fellows	<b>#Scholars</b>	<b>#Papers</b>
Brazil-Pearson/Guerrant (UFC/UFRN/UFB/UFSC)	29 y	62	54	174
Ghana-Woode (UGMS/KNUST)	20 y	8	20	6
Uganda-Scheld/Moore (MU- Kampala)	20 y	2	5	20
China-Rekosh (AMU-Hefei)	20 y	5	2	17
Philippines-Warren (UP)	7 y	4	6	17
Bangladesh-Petri (ICDDR)	14 y	3	4	20
South Africa-Dillingham (Univen)	5 y	5	12	20
Tanzania-Houpt (KCMC/TU)	4 y	4	17	3
Haiti-Dillingham (GHESKIO)	3 y	4	-	5
Panama- Timko (CS/Gorgas/UP)	<b>2</b> y	3	6	-
TOTALS		100*	132	282

\*100% return; 98% stay! Lorntz et al. Acad. Med. 83: 165-72, Feb. 2008.

## Infant Mortality Rate in Ceará, 1994 - 2002



# FIC Framework Program 26 Trans-University Programs x 3y = \$7.5m

- Multiple disciplines (≥3 schools)
- Research capacity building
- •New curricula, undergrad +
- President buy-in, match



Baylor, Hopkins, Harvard, Tufts, UAB, UCLA, UMd, U. Mich, UNC, UVa, U. Wash, Cayetano, CWRU, Cornell, Emory, Penn State, UCSD, USC, Vanderbilt,

UFRJ, Fudan, Muhimbili (Tanz), U. Zimbabwe, NIPH-Mex, Pavlov-Russia, U. Ibadan

## Financing a Sustainable Future



## Moshi, Tanzania January 2007



Commerce + Medicine
(Mark White & Eric Houpt
+14 UVa undergrads + 7 Tanzanian students)

Set up a company to produce HIV test kits locally in Tanzania, AND got it funded to be built!



#### **CONCEPT SHEET**

#### A Network of Trans-University Centers for Global Health

#### Vision

To engage experts and students across all disciplines in building sustained collaborations at top universities and their communities around the world to alleviate the diseases of poverty.

#### Founding principles

- Health is a universal human value, transcending all cultural, geographic and political barriers (no one prefers illness to health).
- Growing health disparities and the diseases of poverty around the world threaten both our biological survival and our very humanity as civilized societies.
- Tremendous societal resources reside in universities worldwide. Engaging universities in addressing health disparities will not only tap these resources for global health, but will also enhance their educational mission.

#### Three components

- **1. Scholars** Mentored students or professionals (esp. from developed countries—DCs) work on a project abroad, ideally building collaborations at existing or new collaborating sites. Students find their perspectives are indelibly opened, often saying, "It changed my life!"
- 2. Fellows Star junior faculty or technicians from less developed countries (LDCs), selected by their home institution, travel to collaborating sites to engage faculty in research that is relevant to their return and continued collaboration. LDC faculty with a relevant agenda, home institutional commitment and promising new tools and sustained ties will return to become leaders in their countries.
- **3. Curricula** Issues of global health are addressed in new university courses that involve exchanging scholars and fellows to elucidate the crucial perspectives of colleagues from abroad.

Such a program can be effective in engaging university faculty, students and trainees in the US and abroad, with up to 100% of trainees from abroad returning to become leaders in their home countries. It also must have the agility to respond to different institutional needs and emerging or new priorities.

#### Requirements

- Letter from University President committing in kind and fiscal matching support;
- Over a key 3-8 year startup period, evidence of progress toward endowment or government support (for overseas sites) before additional years are funded.

## Rockefeller Foundation's GND Network

1978-1988

(1978-1988)

## •Immunology Units:

- •Harvard-David, Karolinska-Wigzell, Weitzman-Arnon/Mirelman,
- •Walter & Eliza Hall Inst.-Nossal

### Pharmacology/Biochemistry Units:

- •CWRU-Webster, Mahidol-Yuthavong,
- •NPI-Mexico-Martinez-Palomo, Rockefeller University-Cerami

### •Medical Units:

- •BRCID-Cairo-El Kholy, Oxford-Weatherall, CWRU-Mahmoud
- •Tufts-Keusch, U. of Virginia-Guerrant,
- •U. of Washington-Klebanoff,

Kenneth S. Warren: 11Jun29-11Sep96



## **Benefits & Challenges**

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# **Benefits and Challenges**of a CGH Network

## •Benefits:

Eclectic agility to engage diverse institutions across disciplines and changing needs/opportunities; and to be seen as a "win-win" for deans and collaborators.

## •Challenges:

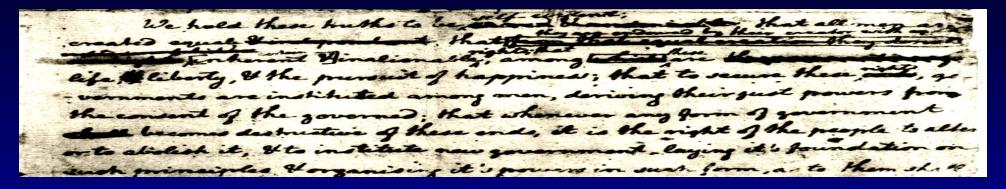
Ownership & buy-in. Based in health sciences, but serving across all schools and deans who measure their success in competitive silos.

## Hence two requirements:

1. President match; 2. Progress toward endowment.

# Declaration of Interdependence

National and Foreign Policy and Diplomacy Begin with Health



We may be starting to realize the survival value of caring for others.

ie how you do is what will determine how I do.



## Key Elements in Win-Win Collaborations: Engaging Universities in Global Health

# Report for IOM Global Health Interest Group Washington, DC October 12, 2008



Models of Academic Partnerships in Global Health University Consortium of Global Health Inaugural Meeting, San Francisco September 7-9, 2008



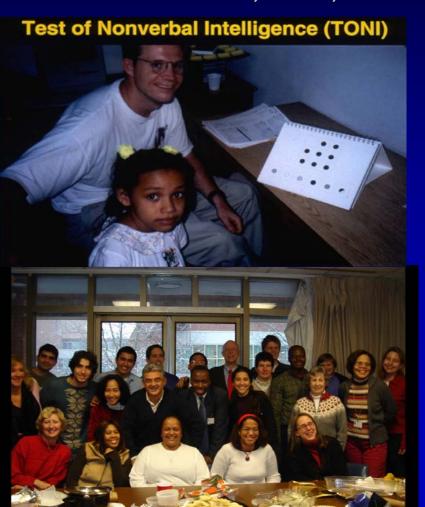


### Have a Dream!

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