Global Health Delivery Project
Narrowing the Gap Between Aspiration and Action

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Gaps in health financing, human resources, and access to care have fatal consequences for millions in developing countries

- Millions of deaths from preventable & treatable causes
  - 6.3 million preventable childhood deaths
  - ½ million maternal deaths
  - 3 million HIV deaths – less than 1-in-8 on treatment
  - 2 million tuberculosis deaths
  - 1 million malaria deaths - mostly children

→ Over 10 million needless deaths each year
...from conditions for which safe, effective, affordable prevention & treatment exist
the implementation bottleneck

- Vaccines
- Primary Health Care
- Drug Therapies
- Maternal and Child Health Care
- Basic Surgery
UNPRECEDENTED OPPORTUNITY

• Key leaders and institutions have recognized the gravity of global health problems

• Since 2001, over $85B in new funding for development

• 28x HIV/AIDS spending increase from $300M in 1996 to $8.5B

• Dramatic decline in treatment costs

• A golden era of funding for global health programs
GATES GRANTS

$448M - new health technologies
$413M - HIV/AIDS vaccine
$258M - malaria vaccine
$165M - new malaria drugs
$124M - anti-HIV microbicides
$115M - diarrhea/nutrition
$106M - TB vaccines/diagnostics
the implementation bottleneck

- Vaccines
- Primary Health Care
- Drug therapies
- Maternal Child Health Care
- Basic Surgery

Gates Foundation develops:
- Microbicides and other preventive tools
- New malaria and TB drugs, diagnostics
- New combination therapies
- Drugs for neglected diseases
- >10 new vaccines
GLOBAL HEALTH “STRATEGY” TO DATE

- Countries and even districts working in isolation
- Project-based
  - Donor preference driven
  - Experimental pilots that never scale
- Competition among implementers
- Cottage industry approach
- Fragmentation of services
- Ineffective and not results oriented
- Absence of technology and measurement orientation
- Resources diverted for overhead and consultants

- Clear need for a better approach
The core issue in health care is the value of health care delivered.

Access is essential, but **not enough**

The core issue in health care is the **value of health care delivered**

Value: Patient outcomes per dollar spent

- How to design health care systems that **dramatically improve value**
- Improving value is the means to achieving **social justice**
INTEGRATING DELIVERY SYSTEM AND CONTEXT: EXTERNAL INFLUENCES ON CARE DELIVERY
GHD Case Studies In Global Health

Haiti: HIV
USA: HIV
Kenya: HIV & Malaria
Zambia: HIV & Malaria
Uganda: HIV
Rwanda: HIV
Botswana: HIV & Maternal and Child Health
Thailand: HIV & Quality Improvement
Iran: HIV
Bangladesh: TB & Polio
Peru: TB & MDR-TB

Value Chain Analysis
HIV Care Delivery Value Chain
MDR-TB Care Delivery Value Chain
Malaria Value Chain
PMTCT Value Chain
GHD Curriculum Modules

1. Value based Care Delivery
2. Shared Delivery Infrastructure: Integrating Vertical & Horizontal Programs
3. Context Constraints
4. Scale vs. Quality
5. Investment in Health Care Infrastructure as a Driver of Economic Development
Value

- Health Outcomes per Dollar Spent
- Property of entire care cycle NOT individual interventions
- Patient centric - value for patients

E.g. *HIV Care in Rwanda*
Shared Delivery Infrastructure: Integrating Vertical & Horizontal Programs

Vertical: focused disease specific interventions
Horizontal: integrated resource sharing health services

E.g. *HIV Voluntary Counseling & Testing in Hinche, Haiti*
Context Constraints

- GDP per capita
- Government expenditure on health care as % of total spending
- Disease prevalence
- Political instability
- Infrastructure

E.g. The AIDS Support Organization (TASO) in Uganda
Scale vs. Quality

- Is there always a trade off?
- How are these concepts factored into program design?
- Role of vision and leadership?

E.g. The Academic Model for the Prevention and Treatment of HIV/AIDS (AMPATH)
Investment in Health Care Infrastructure as a Driver of Economic Development

- Building professional & managerial capacity
- Job creation
- Infusion of capital into markets

E.g. Building Local Capacity for Health Commodity Manufacturing: A to Z Textile Mills Ltd.
Educating Global Health Implementers and Leaders

GHD Seminar at HMS (Fall 2007, Spring 2008, Fall 2008)

Introduction to GHD at HSPH (Jan and Summer 2008, Jan 2009)

*HIV Care in Rwanda* taught during Value-Based Health Care Immersion Course at HBS (Jan 2008)

Global Health Delivery at MIT Sloan (Jan 2008)

X-Prize and Global Health Course at MIT (Spring 2008)

Undergraduate Global Health Course at Harvard College (Fall 2008)

G-Lab GHD at MIT Sloan (Fall 2008)

Faculty Workshop for Global Health Delivery Educators (Sept 2009)
Is there a place for a new field in health research and education?

Basic Science

Clinical Science

Evaluation Sciences

What is the pathophysiology?

What is the appropriate intervention?

Does the intervention work?
Is there a place for a new field in health research and education?

Basic Science

What is the pathophysiology?

Clinical Science

What is the diagnosis and appropriate intervention?

Healthcare Delivery

How do we best deliver the intervention to everyone?

Evaluation Science

Does the intervention and delivery model work?
Global Health Delivery Project

- Develop a Global Health Delivery Framework
- Better Health Outcomes
- Launch Communities of Practice
- Educate Leaders
- Research
What is GHDonline? www.ghdonline.org

Launched in June 2008, GHDonline is a community-based website where healthcare implementers share proven practices, connect with colleagues, and find resources they need to improve health outcomes in resource-limited settings.

The Need for GHDonline

- Global health providers often lack access to current practical, lifesaving information, and work in isolation
- Health care scale-up faces a desperate shortage of trained professionals and new approaches
- Good information is hard to find
GHDonline allows you to…

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<thead>
<tr>
<th>Add resource</th>
<th>Rapidly add &amp; share documents and links with members: no storage capacity limit</th>
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</thead>
<tbody>
<tr>
<td>Start discussion</td>
<td>Connect with a network of peers at local and international levels for practical responses and support</td>
</tr>
<tr>
<td>Search</td>
<td>Find the information you need as recommended by members and on our selection of websites with a powerful search engine</td>
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<tr>
<td>Email Participation</td>
<td>Participate completely via email by emailing your community or replying to “Instant” notifications. Great functionality for hand-held and cell phone users.</td>
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