Health system design and “natural” disasters
Lessons from Haiti and Rwanda

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“The Current Situation of Health in China”

Harvard Center Shanghai
May 8, 2012
Health system design in the 21st century

Community-based

Health center-enriched

Hospital-linked
China’s Cooperative Medical System
“Barefoot doctors”

- Primary health care, including control of vaccine-preventable and vector-borne diseases
- Sanitation
- Life expectancy:
  - 35 years in 1952
  - 68 years in 1982
- 1980s economic reforms affect coverage?
  - 1979: 80-90% covered by CMS
  - 1984: 40-45%

Accompaniment
A cornerstone of care

June 1999

1 year later

With accompagnateur

10 years later
Public-private partnerships
Boucan Carré, 2003
Public-private partnerships
Building platforms for control of complex, chronic diseases

Resources for AIDS

UNGASS
PEPFAR
Global Fund
World Bank MAP
BMGF
FOKAL/OSI
Harvard Consensus Statement

From Haiti to Rwanda
(Re)building infrastructure
Rwinkwavu, 2005
(Re)building infrastructure
Butaro, 2011

GoR covered 25% construction costs and 48% operating costs
More than 90,000 Rwandans on ART (>80% of PLWA)

Child mortality

Maternal mortality

<5 deaths per 1,000 live births

Deaths per 100,000 live births

Platforms for control of complex, chronic diseases
PACT: community-based care in the U.S.

35% savings
Global Health Delivery

More than 6,800 members representing more than 2,149 organizations across 158 countries

Research  Teaching  Service
Partners In Health, 2012

Research, Training, Service
“Natural” disasters and the limitations of health system design
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General Hospital nursing school collapse
Haiti’s earthquake in context

Haiti earthquake: acute response

Diagnosis: acute-on-chronic

- Over 3 million people affected by earthquake
- At peak, 1.3 million in resettlement camps
  - April, 2012: ~450,000 still in camps

Sichuan, 2008
Disasters natural and unnatural
Sichuan, 2008

- >150 aircraft mobilized: largest non-military airlift in Chinese history
- Total damages estimated ~$20 billion; overall economic costs ~$75 billion
- GDP per capita: $4,046 (2011, 24th out of 31 Provinces)
Building back better
Mirebalais Hospital, 2012