SI 575 - Community Information Corps Seminar, Fall 2008

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Health Open Educational Resources

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Agenda

• Motivation for Health OER
• Health OER at U-M
• Going forward
Motivation for Health OER
Life Expectancy

Life expectancy in years:

• North America: 76
• Latin America: 69
• Africa: 51

Source: Undetermined
Global Health Crisis

• Large differences in quality of and access to care \textit{between} developing and developed countries
• Large differences in quality and access to care \textit{within} countries
• Global epidemics
• The successful treatment of acute disease has left an epidemic of chronic disease
Millennium Development Goals

• Reduce Child Mortality
  – Drop the under-five rate by two thirds

• Improve Maternal Health
  – Reduce maternal mortality by three quarters

• Combat HIV/AIDS, malaria, and other diseases
  – Halt and begin to reverse the spread of HIV/AIDS and the incidence of the others
Human Resources for Health

• Any long-term solution to the global health crisis requires investment in human resources.

• Only well-trained health providers can ensure:
  – Achievement of the UN’s Millennium Development Goals,
  – Implementation of global vaccination and medication distribution, and
  – Preparation for the next epidemic

Source: Global Reach, University of Michigan
Distribution of health workers by level of health expenditure and burden of disease

Health OER Initiative
Milestones

• Fall 2007, the Medical School commits to publishing all of its pre-clinical materials as OER
• Medical School and the School of Information collaborate on innovative publishing process
• All U-M health science deans pledge their support
• Health OER planning grant submitted to and awarded by the Hewlett Foundation
Existing Med School Curriculum

• All lecture materials (slides, streaming video) available online through Sakai learning management system
• Some online learning materials have replaced older teaching strategies (anatomy, histology)
• Now deploying highly interactive and adaptive learning experiences (Skill Builder, Advanced Medical Therapeutics course)
Going Forward
May 2008 Africa Workshop

- U-M held a Health OER workshop in Ghana with participants from multiple countries
  - Consensus to move forward with community building proposal
  - U-M and OER Africa partnering with University of Ghana, Kwame Nkrumah University of Science and Technology, University of Cape Town, and University of the Western Cape
2009 Health OER Proposal

• Engage with African institutions on policy issues of IP, faculty reward, collaboration, etc.

• Work with African health science colleagues to:
  – Publish and use current educational materials
  – Adapt materials for local contexts
  – Co-create new materials (#1 priority)
Proposal, cont.

• Develop evaluation and assessment framework for faculty productivity, student learning outcomes, and collaboration capacity

• Focus on capacity building, drawing from reciprocal relationships around education content creation and use
Proposal, cont.

- Major deliverable: A long term logic model and scalable, sustainable, collaborative content development programs for comprehensive, open, health professions curricula.
Systematic Approach: Health OER in Context

- President Mary Sue Coleman Initiatives
- Center for Global Health
- “Global Medical School”
- Gates Foundation projects
  - Vaccine development
  - Human Resources for Health
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