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# *Health Open Educational Resources*

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# *Agenda*

- Motivation for Health OER
- Health OER at U-M
- Going forward



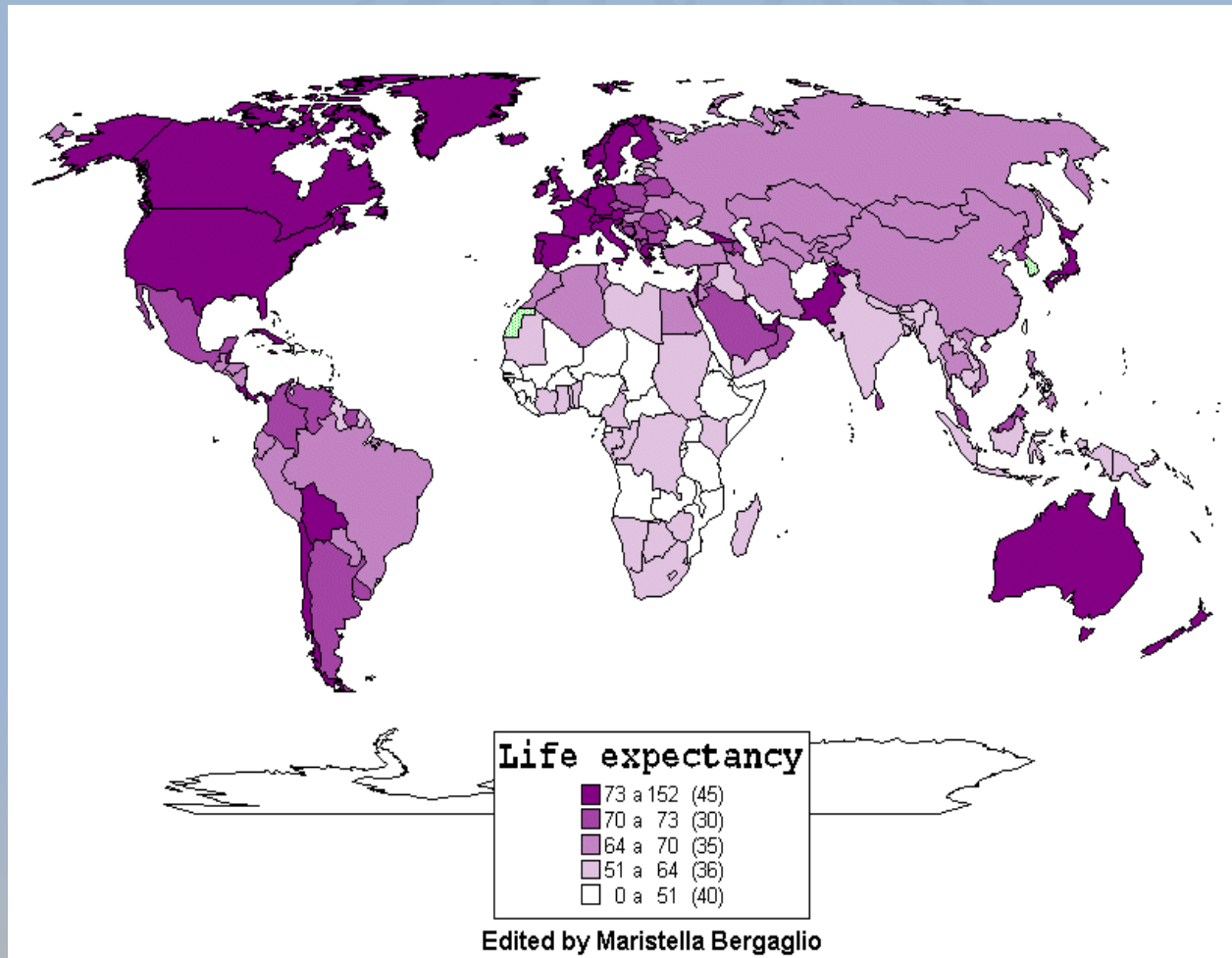
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# *Motivation for Health OER*



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# *Life Expectancy*



**Life expectancy  
in years:**

- **North America: 76**
- **Latin America: 69**
- **Africa: 51**

Source: Undetermined



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# *Global Health Crisis*

- Large differences in quality of and access to care *between* developing and developed countries
- Large differences in quality and access to care *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*

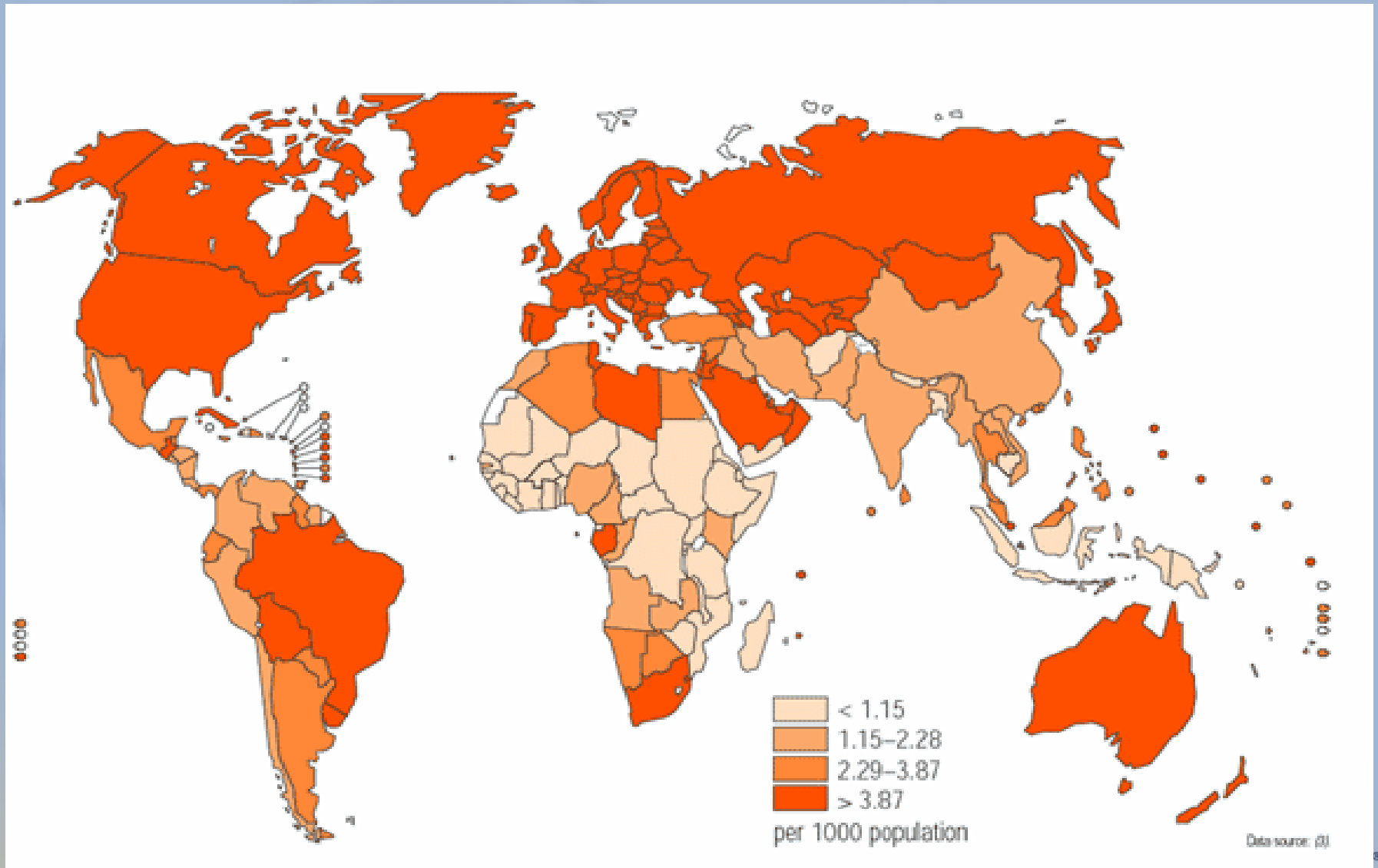
- Any long-term solution to the global health crisis requires investment in human resources.
- Only well-trained health providers can ensure:
  - Achievement of the UN's Millennium Development Goals,
  - Implementation of global vaccination and medication distribution, and
  - Preparation for the next epidemic



Source: Global Reach, University of Michigan

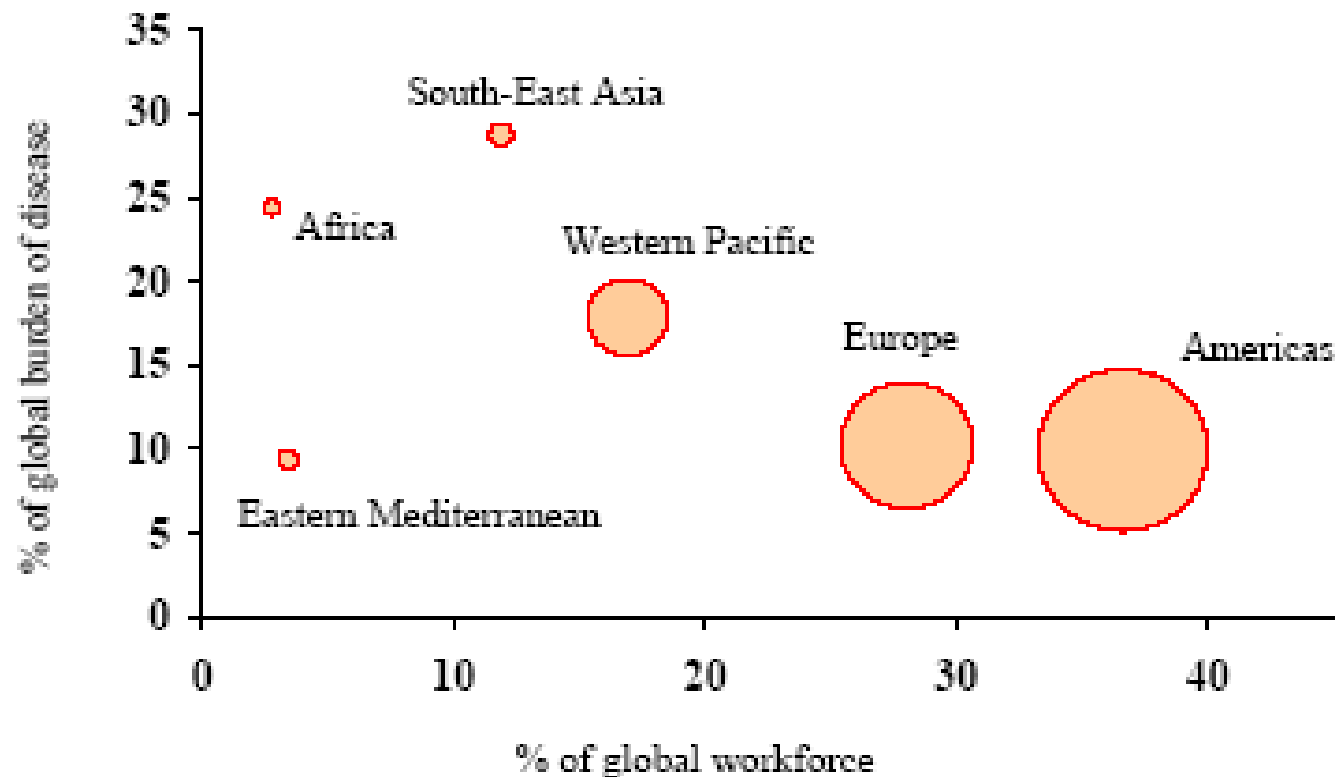


# *Distribution of Health Workers*



Source: World Health Organization. *Working Together for Health: The World Health Report 2006*. WHO Publications: Geneva. 2006.

# Distribution of health workers by level of health expenditure and burden of disease



World Health Organization  
April 06





*Health OER Initiative*



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# *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*



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# *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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