GLOBAL HEALTH 101

KaiserEDU.org Tutorial



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Tutorial Goals







Global Health is...

No standard definition

Approach to health globally has evolved from <u>tropical health</u> and <u>international health</u> to <u>global health</u>

Global health has been described as:

"encompassing 'health problems, issues, and concerns that transcend national boundaries, and may best be addressed by cooperative actions" and may be viewed "not just as a state but also the goal of improving health for all people by reducing avoidable disease, disabilities, and deaths."

-Institute of Medicine (2009)

Source: Institute of Medicine, The U.S. Commitment to Global Health: Recommendations for the New Administration, 2009; previous report quotes Institute of Medicine, America's Vital Interest in Global Health: Protecting Our People, Enhancing Our Economy, and Advancing Our International Interests, 1997.

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Selected Key Global Health Concepts and Measures

Prevalence	 the number of people with a particular condition at any given time
Incidence	 the number of new cases of a disease or condition in a population within a period of time
Morbidity	 the number of people who became ill from a disease or at a certain stage of life
Mortality	 the number of people who died from a disease or at a certain stage of life
Burden of Disease	 a comprehensive demographic and epidemiological framework used to assess the comparative importance of diseases, injuries, and risk factors in causing premature death, loss of health, and disability
Disability-Adjusted Life Year (DALY)	 designed to quantify the burden of diseases, injuries, and risk factors, adds together years of life lost due to premature mortality with the equivalent number of years of life lived with disability or illness





Major Global Health Challenges

Infectious Diseases

- HIV/AIDS
- Malaria
- Tuberculosis (TB)
- Neglected tropical diseases (NTDs)

Non-Communicable Diseases (NCDs)

- Cancer
- Heart Disease
- Diabetes
- Obesity

Population-Based and Other Challenges

- Maternal, newborn, and child health (MNCH)
- Family planning and reproductive health (FP/RH)
- Nutrition
- Clean water, sanitation, and hygiene (WASH)
- Health systems strengthening



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Major Global Health Challenges: Examples



Source: Kaiser Family Foundation, "The Global HIV/AIDS Epidemic," fact sheet, December 2010, http://www.kff.org/hivaids/3030.cfm; WHO, Global Status report on noncommunicable diseases 2010, April 2011, http://www.kff.org/hivaids/3030.cfm; WHO, Global Return to Tutorials status report on noncommunicable diseases 2010, April 2011, http://www.who.int/nmh/publications/ncd_report2010/en/; WHO, et al., Trends in maternal mortality: 1990 to 2008, 2010, http://www.who.int/reproductivehealth/publications/monitoring/9789241500265/en/index.html.



Major Determinants of Health



Source: WHO, The Determinants of Health website, <u>http://www.who.int/hia/evidence/doh/en/;</u> WHO, Social Determinants of Health website, <u>http://www.who.int/social_determinants/en/;</u> WHO, *Macroeconomics and Health: Investing in Health for Economic Development*, 2001, <u>http://whqlibdoc.who.int/publications/2001/924154550X.pdf</u>.





Global Burden of Disease: Leading Causes of Death, 2008

Rank	Low-Income Countries	Middle-Income Countries	High-Income Countries
1	Lower respiratory infections	Ischaemic heart disease	Ischaemic heart disease
2	Diarrheal diseases	Stroke and other cerebrovascular diseases	Stroke and other cerebrovascular diseases
3	HIV/AIDS	Chronic obstructive pulmonary disease	Trachea, bronchus, lung cancers
4	Ischaemic heart disease	Lower respiratory infections	Alzheimer and other dementias
5	Malaria	Diarrheal diseases	Lower respiratory infections
6	Stroke and other cerebrovascular diseases	HIV/AIDS	Chronic obstructive pulmonary disease
7	Tuberculosis	Road traffic accidents	Colon and rectum cancers
8	Prematurity and low birth weight	Tuberculosis	Diabetes mellitus
9	Birth asphyxia and birth trauma	Diabetes mellitus	Hypertensive heart disease
10	Neonatal infections and other	Hypertensive heart disease	Breast cancer

Note: "Neonatal Infections and Other" category also includes other non-infectious causes arising in the perinatal period apart from prematurity, low birth weight, birth trauma and asphyxia.

Source: WHO, "The Top Ten Causes of Death," fact sheet #310, May 2011, " http://www.who.int/mediacentre/factsheets/fs310_2008.pdf.





Global Burden of Disease: DALYs Lost, 2004

Rank	Low-Income Countries	Middle-Income Countries	High-Income Countries
1	Lower respiratory infections	Unipolar depressive disorders	Unipolar depressive disorders
2	Diarrheal diseases	Ischaemic heart disease	Ischaemic heart disease
3	HIV/AIDS	Cerebrovascular disease	Cerebrovascular disease
4	Malaria	Road traffic accidents	Alzheimer and other dementias
5	Prematurity and low birth weight	Lower respiratory infections	Alcohol use disorders
6	Neonatal infections and other	Chronic obstructive pulmonary disease	Hearing loss, adult onset
7	Birth asphyxia and birth trauma	HIV/AIDS	Chronic obstructive pulmonary disease
8	Unipolar depressive disorders	Alcohol use disorders	Diabetes mellitus
9	Ischaemic heart disease	Refractive errors	Trachea, bronchus, lung cancers
10	Tuberculosis	Diarrheal diseases	Road traffic accidents

Note: "Neonatal infections and other" category also includes other non-infectious causes arising in the perinatal period apart from prematurity, low birth weight, birth trauma and asphyxia. These non-infectious causes are responsible for about 20% of DALYs shown in this category. **Return to Tutorials** Source: WHO, The global burden of disease: 2004 update, 2008, http://www.who.int/healthinfo/global burden disease/2004 report update/en/index.html.

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Key Stakeholders in Global Health

Multilateral and International Organizations

- Global Fund
- UN Agencies, such as:
 - WHO
 - UNAIDS
 - UNFPA
- GAVI
- Stop TB
- Roll Back Malaria

Countries

- Donor countries, such as those in the Group of 8 (G-8, including United States of America, United Kingdom, Japan, Germany, France) and the Group of 20 (G-20)
- Partner countries, such as South Africa, Vietnam, and Haiti

Private Sector

- Businesses, including
 pharmaceutical companies
- Foundations

Academia and Research Organizations

- Universities
- Research institutions
- Think tanks

Civil Society

- Non-governmental organizations (NGOs)
- Community organizations

Individuals

- Affected individuals
- Family members
- Community members





Selected Recent Global Health Initiatives







Spotlight on the Millennium Development Goals (MDGs)

"A new global partnership to reduce extreme poverty and setting out a series of time-bound targets"			
Announced in the United Nations Millennium Declaration (2000)	Agreed by all UN member-states and the world's leading development institutions	Goal date: 2015	





The Millennium Development Goals (MDGs)

MDG 1	Eradicate extreme poverty and hunger
MDG 2	Achieve universal primary education
MDG 3	Promote gender equality and empower women
MDG 4	Reduce child mortality
MDG 5	 Improve maternal health Achieve universal access to reproductive health
MDG 6	Combat HIV/AIDS, malaria, and other diseases
MDG 7	Ensure environmental sustainability
MDG 8	Foster global partnerships for development



Source: UN MDGs website, http://www.un.org/millenniumgoals/index.shtml.

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Looking Forward: Selected Opportunities and Challenges





Additional Online Resources on Global Health

Multilateral and international organizations

GAVI Global Fund Millennium Development Goals (MDGs) UNAIDS UNFPA UNICEF World Health Organization http://www.gavialliance.org/ http://www.theglobalfund.org/en/ http://www.un.org/millenniumgoals/ http://www.unaids.org/en/ http://www.unfpa.org/public/ http://www.unicef.org/ http://www.who.int/en/

Learning, data, and analysis

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