Global Health and Global Health Education

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OBJECTIV

- What is Global Health?
- Why is it important?
- Who are the major players?
- Where is it now?
- Where are we headed?



What is Global Health?

- Global Health
 - Attempt to understand and reduce health disparities at home and abroad
 - Working collaboratively with other communities and countries to improve community health locally and globally
 - Learning about health issues that transcend geographic borders and commonly present a greater burden to disadvantaged populations

What is Global Health

 "Global Health" stresses "the global commonality of health issues that transcend national boarders, class, race, ethnicity, income or culture."

 Disease patterns may vary geographically, but the factors that foster disease onset are too often the same across the world

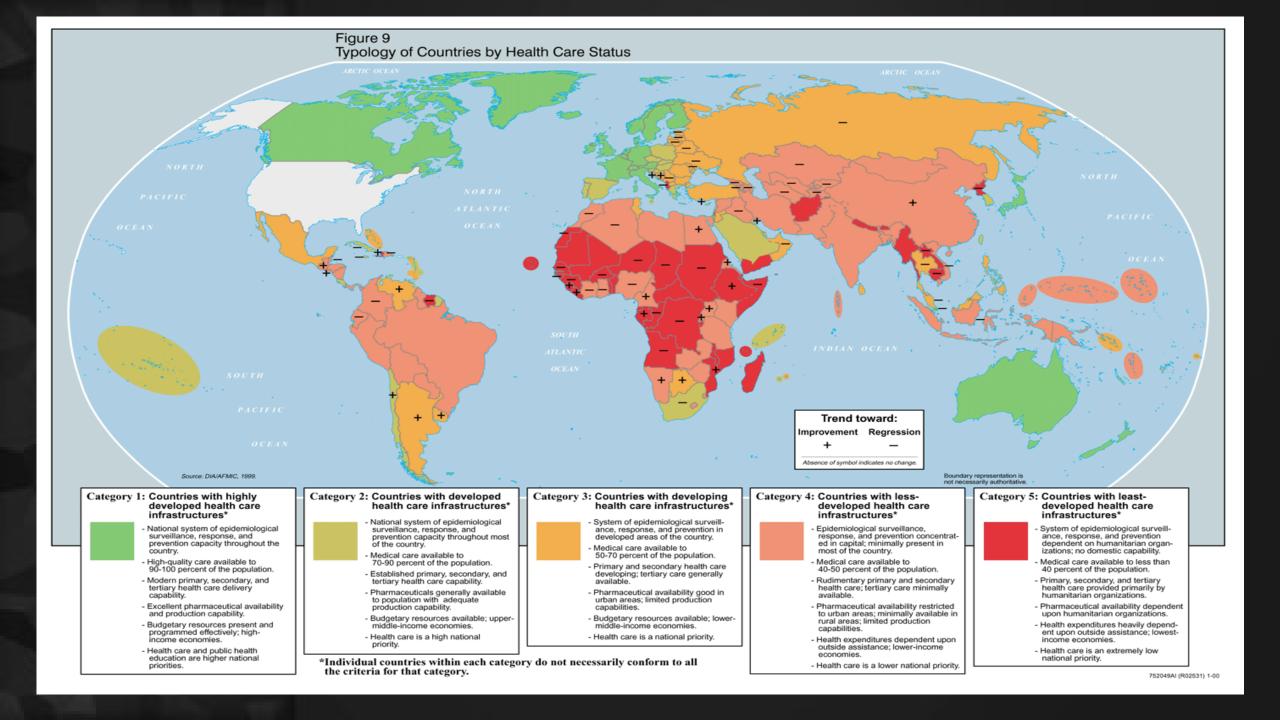
• Rise in non-communicable diseases highlights our "sameness"

What is Global Health

- Director General Gro Brundtland of the WHO said
 - "in the past, desperate conditions on another continent might cynically be written out of one's memory. The process of globalization has made such an option impossible. The separation between domestic and 'global' health problems is no longer useful"
 - Given April 19, 2001 in New York City
- "Global" emphasizes "sameness"
- "International" emphasizes "differences"

Why is Global Health Important?

- First and foremost, the Globalization of Disease
 - Expansion of rapid travel and trade has increased the transmission and spread of infectious diseases
- Physicians must understand
 - Global burden and epidemiology of disease
 - Disparities and inequities in global health systems



Current Actors in Global Health



International Federation for Emergency Medicine

















BILL & MELINDA GATES foundation

Millennium Development Goals/Sustainable Development Goals





































Did the Millennium Development Goals Succeed?

Did we achieve the Millennium Development Goals (MDGs)? Our World in Data



Summary of global progress of the United Nations' (UN) Millennium Development Goals (MDGs), which spanned the period 2000-2015. Shown are the Targets of the MDGs*, levels in the baseline year, the final target level and actual achieved level for each Target.

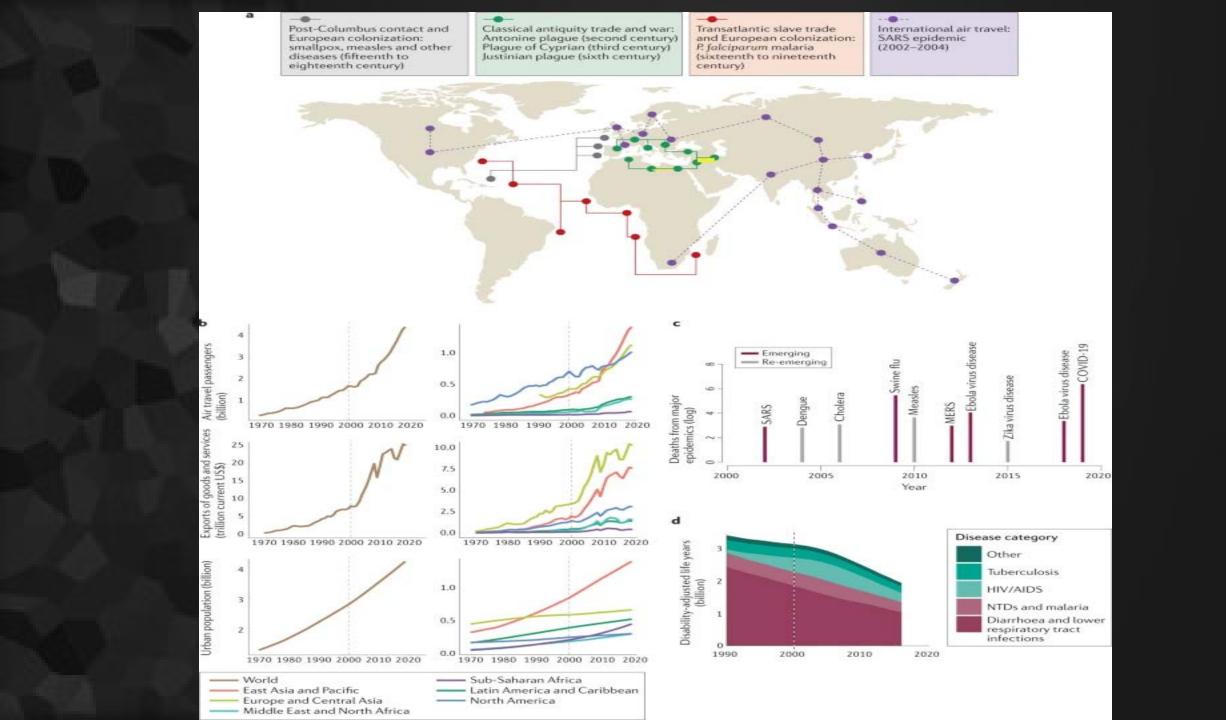
- Achieved Targets are marked in green;
- Missed Targets are marked in red.

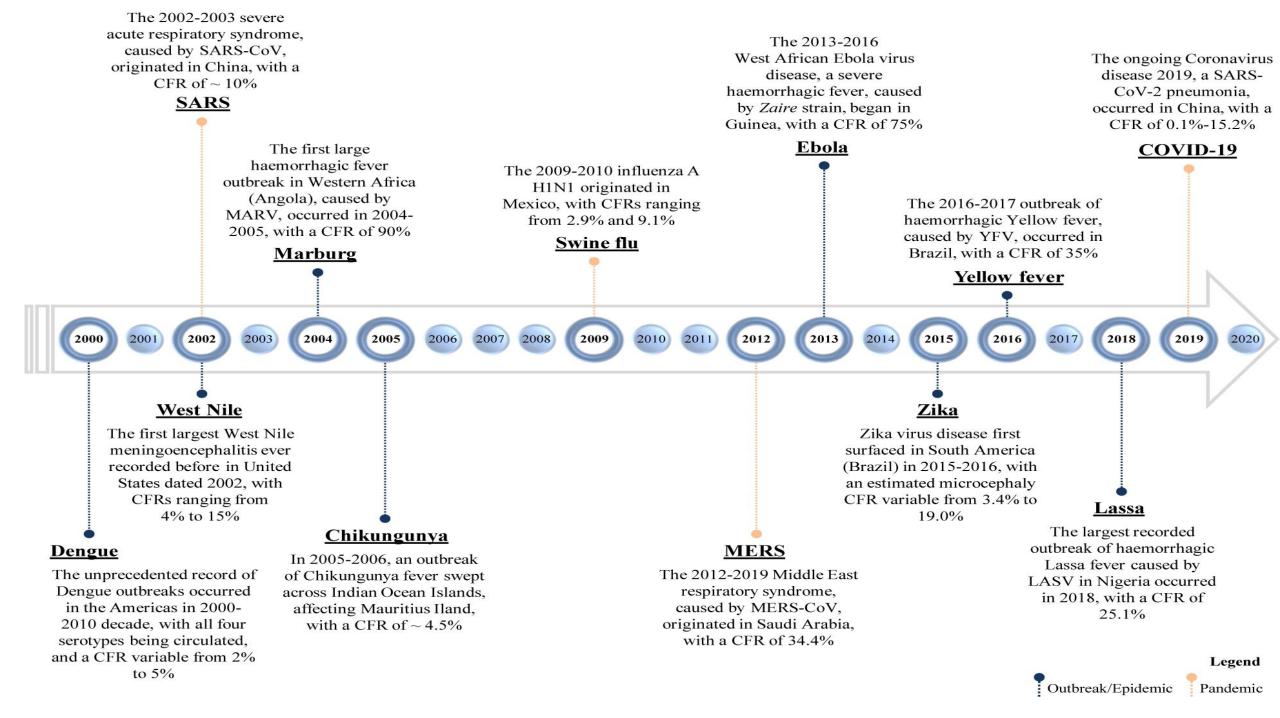
Millennium Development Goal (MDG) Target	Baseline level	Target level	Achieved final level
MDG1.A: halve share of people living in extreme poverty (<\$1.25 per day)	47% in developing regions	Reduce to 23.5%	Fell to 14%
MDG1.B: achieve full and productive employment, as well as decent work for all, including young people and women	62% global working-age population in employment	Full (100%)	Fell to 60%
MDG1.C: halve the proportion of individuals suffering from hunger	23.3% in developing regions	Reduce to 11.5%	Fell to 12.9%
MDG2.A: ensure that children universally – including both boys and girls – will be able to complete a full course of primary education	83% in developing regions	Universal (100%)	Increased to 91%
MDG3.A: eliminate gender disparity at all education levels	Developing regions: 0.87 in primary 0.77 in secondary 0.71 in tertiary	Gender parity index (GPI) between 0.97-1,03	Developing regions 0.98 in primary 0.98 in secondary 1.01 in tertiary
MDG4.A: reduce the under-five mortality rate by two-thirds	90 per 1,000 live births	Reduce to 30 per 1,000	Fell to 43 per 1,000
MDG5.A: reduce the maternal mortality ratio by 75 percent	380 per 100,000 births	Reduce to 95 per 100,000	Fell to 210 per 100,000
MDG5.B: achieve universal access to reproductive health. Pregnant women receiving adequate antenatal care visits	35% in developing regions	Universal (100%)	Increased to 52%
MDG5.B: achieve universal access to reproductive health. Women aged 15 – 49 in mernagelunion, using contraceptives	55% in developing regions	Universal (100%)	Increased to 64%
MDG6.A: halt and have started to reverse the spread of HIV/AIDS	3.5M new cases per year	0 new cases	2.1M new cases per year
MDG6.B: achieve global access to treatment for HIV/AIDS for those who need it by 2010	3% of people with HIV	100% of people with HIV	23% of people with HIV (2010) 45% of people with HIV (2015)
MDG6.C: ceased & started reversal of incidence of malaria & TB. Incidence of malaria	158 new cases per 1,000 at risk	Fewer than 158 new cases per 1,000 at risk	Fell to 94 new cases per 1,000 at risk
MDG6.C: ceased & started reversal of incidence of malaria & TB. Incidence of tuberculosis (TB)	172 new cases per 100,000 people	Fewer than 172 new cases per 100,000 people	Fell to 142 new cases per 100,000 people
MDG7.A: integrate principles of sustainable development into country policies & reverse loss of environmental resources	A		Multiple metrics (nearly all deteriorating)
MDG7.B: reduce biodiversity loss, achieving, by 2010, a significant reduction in the rate of loss			Red List Index shows continued biodiversity loss
MDG7.C: halve the proportion of the population without sustainable access to safe drinking water	24% without access to improved water source	Reduce to 12% without access	Fell to 9% without access
MDG7.C: halve the proportion of the population without sustainable access to sanitation	46% without access to improved sanitation	Reduce to 23% without access	Fell to 32% without access

*MDG8 (Global Partnership) does not have easily quantifiable targets and is therefore not included. Source: United Nations (UN), the MDG Report (2015) & MDG Monitor.

The data visualization is available at OurWorldinData.org. There you will find further data on this topic.

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OSU-CHS Trips





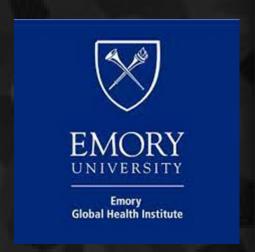








Allopathic Universities with Global Health Institutes









Baylor College of Medicine

BAYLOR GLOBAL
HEALTH









Osteopathic Global Health Institutes



Where do we go from here?

 Implementing more robust global medical educational opportunities will help fulfill OSU's mission of producing quality primary care physicians to serve in rural and underserved communities.

AOA goals in Global Health

WORLD VIEW

Raising the profile of DOs across the globe

Osteopathic medicine is gaining international recognition as the AOA works to advance practice rights for U.S.-trained DOs.

Raising international awareness of osteopathic medicine is one of the AOA's key strategic objectives. In collaboration with the Osteopathic International Alliance and the Bureau of International Osteopathic Medicine, the organization has identified the following focus areas aimed at increasing the impact of osteopathic medicine within the global health community.

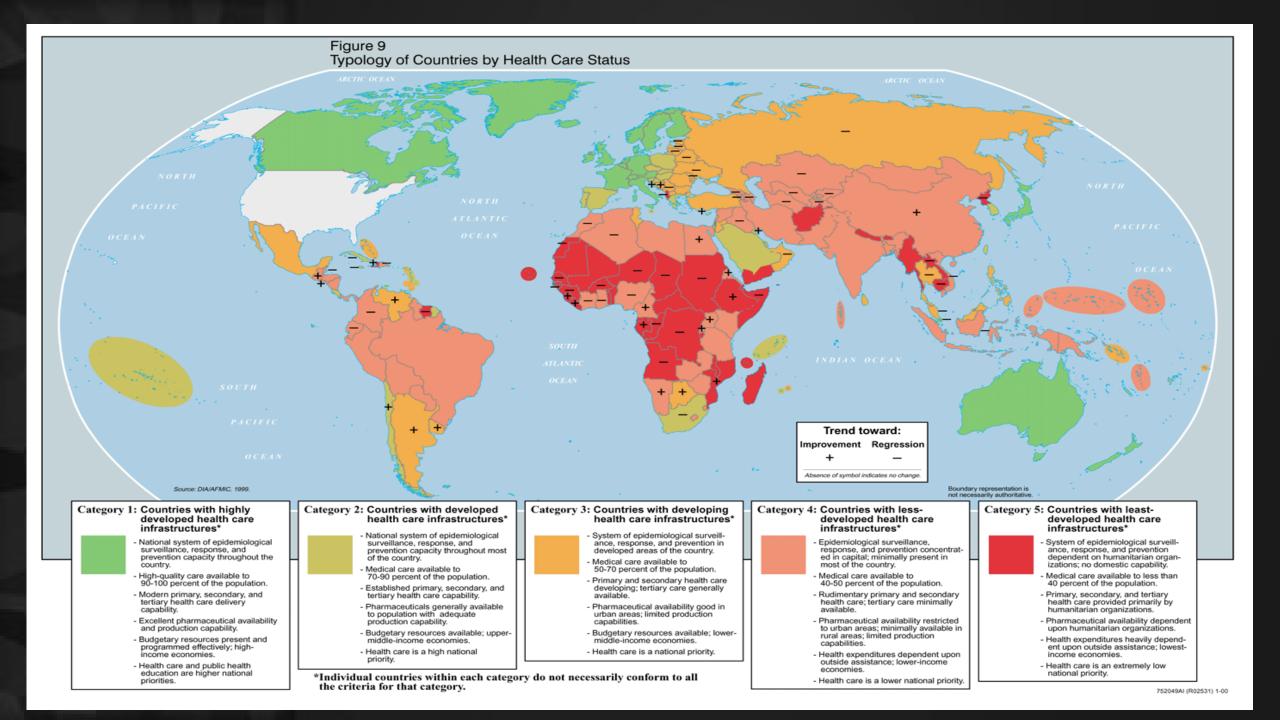
- Expanding licensure and practice rights for U.S.-educated and trained DOs
 During the past several decades, DOs have received practice rights in many countries around the world. To further expand these opportunities, the AOA works to educate foreign health officials about the U.S. model of osteopathic medicine.
- Sharing data and other resources and collaborating on research with the international community
- Exploring opportunities to accredit an international U.S.-model college of osteopathic medicine

Majority of Medical Students/Residents Seek Global Health Experiences

- Nearly 80 percent of incoming medical students would like to pursue global learning opportunities during medical school.
- The number of residents looking for global learning opportunities is nearly 66 percent.
- The number of U.S. medical graduates who participated in global health experiences increased from 6 percent in 1984 to 31 percent in 2011.
- Students who have international health experiences report being more culturally competent and are more likely to enter primary care or public service.
- 74% of students who participated in an 8 week international fellowship picked primary care specialties versus 43% of students who did not

Puts Physicians back in underserved America & Oklahoma

- In a survey of residents who participated in international rotations, 100% expressed an ongoing dedication to underserved populations domestically.
- Of students who have completed a global health track:
 - 83% said the experience changed their world view
 - 80% planned to primarily practice in the US and spend some time overseas.





 OSUMC Emergency Medicine Residency Partnership with Brazilian Emergency Medicine Residency

 Beginning in the new academic year, July 2023

 Potential expansion to include internal medicine, family medicine, pediatrics, general surgery, and others



Future Actions



ANY JUF STION

Resources

- 1. Theodore M. Brown PhD and Marcos Cueto, P. a. (2006). The World Health Organization and the Transition From "International" to "Global" Public Health. American Journal of Public Health, 62-72.
- Allen H. Ramsey, M. (2004). Career Influence of an International Health Experience During Medical School. Family Medicine, 412-416.
- 3. Jaymie A. Henry, M. (2012). The Benefits of International Rotations to Resource-Limited Settings for US Surgery Residents. Surgery, 445-454.
- 4. Jessica Jeffrey, M. (2011). Effects of International Health Electives on Medical Student Learning and Career Choice. Family Medicine, 21-28.
- 5. Paul K. Drain, M. (2009). Global Health Training and International Clinical Rotations During Residency: Current Status, Needs, and Oppotunities. Academic Medicine, 320-325.
- 6. AAMC. (2013, July 15). AAMC Launches New Global Health Education Initiative to Enhance Opportunities for Medical Students and Faculty Worldwide. Retrieved from AAMC: https://www.aamc.org/newsroom/newsreleases/349278/071513.html
- 7. Reece, J., Dionne, C. and Kuprika, T., 2020. Can global health opportunities lead to an increase in primary care physicians?. Journal of Global Health, [online] 10(2). Available at: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7688187/#:"text=Global%20health%20opportunities%20remain%20popular,during%20their%20training%20%5B1%5D.> [Accessed 24 August 2022].
- 8. Route, B. a. (1994). The Educational Effect of Clinical Rotations in Nonindustrialized Countries. Family Medicine.
- 9. al, E. e. (2001). An International Health/Tropical Medicine Elective . Academic Medicine.
- 10. Jack Chase, M. a. (2011). Global Health Training in Graduate Medical Education. San Francisco: Global Health Education Consortium.
- 11. Culjat, S. a. (1990). An International Health Fellowhsip in Primary Care in the Developing World. Academic Medicine.
- 12. Michael Godkin, P. (2001). The Effect of a Global Multiculturalism Track on Cultural Competence of Preclinical Medical Students. Family Medicine, 178-186.
- 13. Cynthia Haq, M. (2000). New World Views: Preparing Physicians in Training for Global Health Work. Family Medicine, 566-572.
- Bhakti Hansoti, M. a. (2013). Guidelines for Safety of Trainees Rotating Abroad: Consensus Recommendations from the Global Emergency Medicine Academy of the Society for Academic Emergency Medicine, Council of Emergency Medicine Residency Directors, and the EM Residents' Association. Academic Emergency Medicine, 413-420.
- 15. Shannon Galvin, M. (2012). Injuries Occurring in Medical Students During International Medical Rotations. Family Medicine, 404-407.
- 16. https://www.mdgmonitor.org/millennium-development-goals/
- 17. https://www.imf.org/en/Topics/SDG
- 18. https://www.frontiersin.org/articles/10.3389/fimmu.2020.02130/full
- 19. https://www.nature.com/articles/s41579-021-00639-z