

Global Health and Underserved Population Program Overview

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Global Health: Objectives

1. Meet the team
2. What is it?
3. Historical Perspective
4. Vision
5. Mission Statement
6. Program Requirements
7. Curriculum
8. Medical Missions





Global Health Team



What is it?

- Global Health and Underserved Populations Program
- Certificate Program with an emphasis on preparing resident physicians to serve in underserved communities, to practice medicine in an austere environment, and to do so safely.
- Open to any resident (PGY II or greater) to earn a Certificate in Global Health and Underserved Populations
- Eventually plan to make it into a fellowship program



Global Health Program History

- Established 2006
- Resident Driven Program:
 - Dr. Jennifer Lehman and Dr. Laura Diefendorf
 - Dr. Greg Talente, first program director
 - Dr. John Meredith, current program director



Vision

“The Global Health Program exists to empower physicians and medical students via education directed at the myriad of cultural and medical differences that exist in our diverse world today- building upon their attributes of humility, inner strength, and compassion- thus making them citizens of the world.”



Mission

- Public Health Knowledge
- Effective Patient Care
- Medical Knowledge
- Special Population Needs
- Systems Based Learning
- Professional Growth
- Research and Data Utilization:
- Professionalism
- Communication
- Advocacy
- Interdisciplinary collaboration
- Humanitarian Aid
- Cultural competency



Program Requirements



- Program may be completed by VMC PGY II residents and above.
- A central prerequisite is completion of the internship year in good standing in an accredited program.
- PGY I are welcome **and encouraged** to attend any of the lectures and training events.

Program Requirements, continued

- To earn the certificate, participants must attend >50% of the lectures (can be completed over a 2-year period).
- Participants should deliver at least one lecture themselves or as a group
- Complete at least one online course module
- A special project should be completed at some point



Curriculum, Lecture Based

- 3- 4 lectures per month. Time: 12:00-1:00 p.m.
- Location: ED Classroom, 3rd floor of the ED.
- Day of the week: Wednesday
- Lecture focus: trauma/toxicology, medical mission planning, spotlight on global health opportunities, medical management in resource poor settings, infectious/tropical diseases, public health, etc



Lecture Examples

Trauma/Toxicology

- Snake Bite
- Insect/Arthropod Envenomation
- Animal attacks
- Plant Toxicology

Medical Mission Planning and Going

- Getting there and back
- Medical Mission Nutritional Support
- Personal Safety Abroad on a Medical Mission

Medical Management

- Dehydration in an Infant or Child, Fluid Resuscitation
- Ultrasound Use in the Third World/Medical Mission Scenario
- Fracture Stabilization, Splinting Lab, Simulation Lab

Rabies

How it spreads

ANIMAL BITE: The farther away from brain, the longer virus takes to spread

VIRUS: Spreads through central nervous system

Common carriers of rabies

Infected animals: Show no fear for humans; act very agitated

Bat **Fox** **Cat** **Skunk**

Dog: Another common rabies source

Symptoms in humans

- Fever, depression
- Agitation
- Painful spasms followed by excessive saliva
- Death within a week without vaccine

Treatment: Hospitalization, immune globulin injections, anti-rabies vaccine

Foaming at mouth after drinking: Produced by spasms in throat

SOURCE: The World Book Medical Encyclopedia KRT

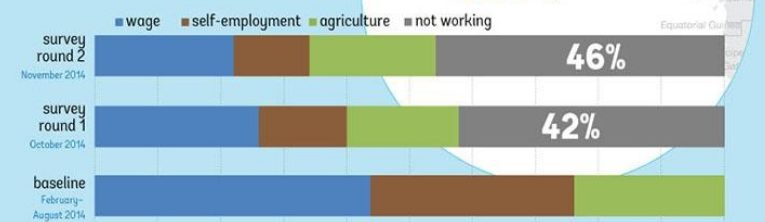
Tropical Medicine/Infectious Disease

- Update on Worldwide Viruses
 - Cholera
 - TB
 - Malaria
- HIV in developing nations
 - Zoonotic Infection
- Tick Bourne Illnesses of the World
- Parasitology Workshop, Do you see what I see?
- Dermatological Infections of the Third World

Nearly Half of Liberia's Workforce

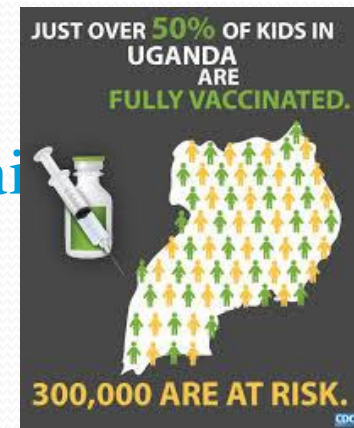
No Longer Working Since Start of Ebola Crisis

#ebolareponse



Public Health

- Clean Water, how to get it and how to maintain it
- Water Bourne Illnesses in the Third World
- Diseases of Malnutrition in the Third World



EDUCATING GIRLS MAKES THEM HEALTHY



#WORLDHEALTHDAY

1 UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION (UNESCO) EDUCATION FOR ALL-BENEFIT REPORT: EDUCATION COUNTS BROCHURE, 2011

2 UNITED NATIONS GENDER EQUALITY INITIATIVE (UNGEI) EMPOWERING WOMEN REPORT, 2012



Worldwide Healthcare

- CDC guidelines and recommendations
 - Update on WHO worldwide initiatives
- What countries need help with what things

Underserved Medicine

- Underserved medicine in the US
- The impact of a doctor in an underserved area
- Opportunities in Eastern North Carolina

Nuts and Bolts

- How to set up a travel clinic
- How to start a clinic in another country
- Laboratory and radiology support overseas
- Practice models in other countries
- Ancillary staff at overseas clinics.



1 in 3 U.S. adults with a chronic illness has trouble affording food, medicine or both.



23%

have trouble affording food

19%

skip medication because of cost

11%

struggle to afford both



The Practitioner's Guide to Global Health - Part 1: The Big Picture

Learn how to safely and effectively participate in global health rotations and projects.

BOSTON
UNIVERSITY

October 26, 2015 - Self-Paced

[Enroll Now](#)

- I would like to receive email from Boston University and learn about its other programs.

Special Project: Some options

1. Away rotation at an approved site serving an underserved population, either in US or outside US. This may be mission based with an ECU BSOM faculty member or an approved adjunct faculty member.
2. Independent study with topic approved by program director that encompasses an aspect of service to an underserved population.
3. Poster presentation or journal publication on an aspect of Global Health and serving an underserved population
4. Special service project
e.g. World Kidney day and World AIDS day projects

Global Health Grand Rounds



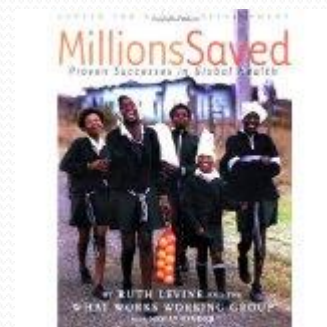
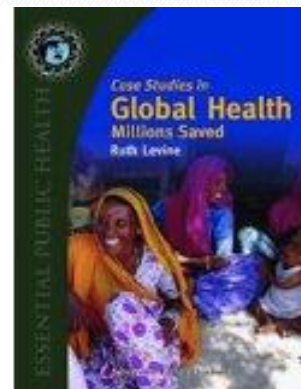
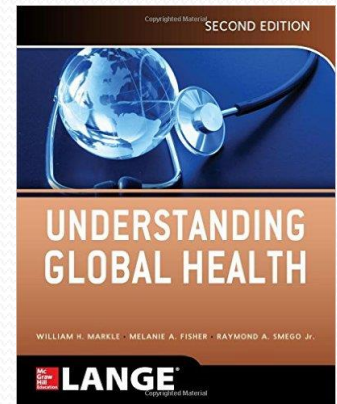
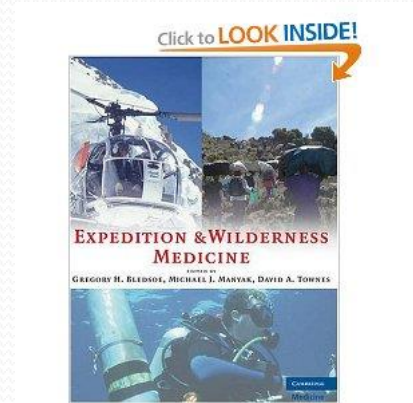
- A long-term goal
- Counts toward a resident's total lecture number goal
- Usually a bigger topic or speaker
- Held in one of the big auditoriums (VMC or Brody)

Useful resources

- Free online courses and certificates
- Boston University: The Practitioner's Guide to Global Health
- USAID e-learning courses
- Unite for Sight
- Johns Hopkins University Ethics and Open Global Health Courseware Modules
- Consortium of Universities for Global Health on-line modules
- I-TECH/University of Washington Clinical Education modules
- World Bank On-Line Modules on Sustainable Development
- University of Copenhagen Coursewara Modules

Suggested Reading

- Expedition & Wilderness Medicine
 - Authors: Bledsoe, Manyak and Townes
- Understanding Global Health
 - Authors: Markle, Fisher, and Smego
- Case studies in Global Health: Millions Saved
 - Author: Levine



Global health opportunities

- Dr. Hannon, Dr. Rose -Nicaragua, Affiliation with BSOM
- Dr. Irons- Zambia
- Dr. Siraj- Ethiopia
- Dr. Ledoux- Haiti
- Check out our website for updates



Global Health website



Welcome to the Global Health and Underserved Populations Program

Vision

- <http://www.ecu.edu/cs-dhs/ghp/>
- Finally updated!
- We'll be uploading information here:
 - All lectures
- Calendar of upcoming events, lectures, conference
 - International opportunities

I want to give lectures!

- To do a lecture: Just email or talk to us and we'll tell you what dates are available
 - Alternately, you can email or talk to Mallory Ball
- To tell us about a speaker you know also email us. Our contact info is on the website, but here it is too:
 - Jen Emberger: embergerj@ecu.edu
 - Itunu Owoyemi: owoyemii@ecu.edu
 - Sarah Ashley: seashley.uc@gmail.com
 - Mallory Ball: ballm@ecu.edu

I want to do stuff!

- Great! We need your ideas!
- To tell us about a great idea you had (service project, global health conference, etc.): again, just talk to us some way.
- To find out how to go overseas:
 - On the website
 - In the meantime talk to us and we can put you in touch with someone
 - Or if you have plans already we can help you get an elective lined up

Send Us Pictures!



Zambia



Haiti



Nicaragua



Summary

- We are looking forward to a great year of lectures, learning, and service
- The Global Health Program curriculum is still evolving and we are open to suggestions
- We want you to get involved!

