

Review of Selected Educational Online Resources In Global Health

Group I: Introductory Courses on Global Health

1. **Global Health 101 Online (UCSF)**

<https://courses.ucsf.edu/course/view.php?id=2489>

Access: Free and self-paced. Completion certificate available.

Scope: There are 10 modules in this overview of global health, including topics like international environmental concerns, determining the burden of disease, vulnerable populations, refugees, ethics, and careers in global health. The lectures are PowerPoints with audio, presented by faculty at UCSF. There are also exercises, reading materials, and quizzes.

Quality: Very Good

Time to Complete: 10 hours

2. **EdX: “The Practitioner’s Guide to Global Health” (Boston University)**

Part 1: The Big Picture

<https://www.edx.org/course/practitioners-guide-global-health-part-1-bux-globalhealthx-1>

Part 2: Preparation and On the Ground

<https://www.edx.org/course/practitioners-guide-global-health-part-2-bux-globalhealthx-2#!>

Part 3: Reflection

<https://www.edx.org/course/practitioners-guide-global-health-part-3-bux-globalhealthx-3>

Access: Free and self-paced. Costs \$50 for certificate.

Scope: This is a three-part course focused on *preparing* medical students for an international experience. Part 1 is an examination of the reasons one might choose to a global health (GH) experience, including a consideration of ethical issues. Especially watch “Do No Harm,” a very thoughtful documentary on the role of medical students participating in these kinds of experiences. Part 2 is a review of logistical and practical issues to be considered. Part 3 encourages reflection on the GH experience, including reverse culture shock. It is mostly text, but has some short videos of medical students describing and reflecting on the experience.

Quality: Very Good

Time to Complete: 10 hours to complete all three portions

3. **Coursera: The Challenges of Global Health (Duke University)**

<https://www.coursera.org/learn/global-health>

Access: Free, but \$50 if learner desires a certificate. *Has enrollment dates.*

Scope: This is a basic introduction to GH for those with no prior background. It introduces basic GH concepts, and gives an overview of major communicable (CDs) and non-communicable diseases (NCDs).

Quality: Good for an introductory course.

Time to Complete: About 11 hours of video lectures.

4. **Coursera: An Introduction to Global Health (University of Copenhagen)**

<https://www.coursera.org/learn/global-health-introduction>

Access: Free. Has enrollment dates. Costs \$50 for certificate.

Scope: In-depth introduction to GH concepts. Covers measuring global health, CDs and NCDs, sexual and reproductive health and rights (SRHR), maternal and child health, environmental health, migrant health, food and nutrition, environmental health, water and sanitation, health systems and governance. Video lectures and discussion with highly experienced GH professionals and researchers with an in-depth perspective.

Quality: Excellent.

Time to Complete: About 10-12 hours

5. Coursera: Global Health: An Interdisciplinary Overview (University of Geneva)

<https://www.coursera.org/learn/global-health-overview>

Access: Free but \$50 if learner desires a certificate. *Has enrollment dates.*

Scope: This course is heavily focused on broad public health concepts, and useful for its European/UN, WHO perspective on global health issues. The introduction is given by Petra Lanz, director of the UN Development Program. The course focuses on the big picture relationships of development to health, social determinants of health, and the impact of CDs and NCDs.

Quality: Very good, less useful as an introductory course, but a good resource for a student who wants to go deeper and is interested in the European perspective on GH issues.

Time to Complete: About 48 hours

6. Unite for Sight

<http://www.uniteforsight.org/global-health-university/courses>

This organization offers about 90 units on various global health topics, as well as a certificate in Global Health on completion of the following units:

- Global Health Course
- Social Entrepreneurship Course
- The Importance of Avoiding Pitfalls in Global Health & Development Course
- The Science of Global Health Delivery
- Issues in Medication Management
- Global Health Metrics
- Strategies for Responsible Global Health Engagement Expert Panel
- Strategies for Improving Health Outcomes Expert Panel

Access: Free but \$100 if learner desires a certificate. Self-paced.

Scope: Information is presented in a text format except for the Expert Panel webinars. Good overall view of the topics presented with additional references provided.

Quality: Good

Time to Complete: About 8 hours

7. Consortium of Universities for Global Health (CUGH)

<http://cugh.org/resources/educational-modules>

Access: Free. Self-paced. No certificate.

Scope: Independent modules over specific NCDs and CD clinical issues such as acute malnutrition, pediatric burn injuries, Dengue fever, HIV etc. This website also has units on Vulnerable

Populations; Child Health, and others with a public health focus on policies, health systems, workforce etc. Additionally there are a number of General Links to other global health materials or portals. Most of the units consist of a detailed self-explanatory PowerPoint that the user can review. However some units, like Global Child Health Educational Modules Project (GCHEMP), include a recorded lecture with a detailed interactive presentation.

Quality: Units reviewed were comprehensive and targeted to clinicians in the field, but some are older.

Time to Complete: Variable but about 1 hour per unit.

Group II: Course for Specific Types of International Experiences

1. Emergency Medicine Pre-departure Curriculum

<https://www.dropbox.com/sh/tqgfywm5g1xl1g/AAAUOL2P-PRPdyyBGyE0J6rCa?dl=0>

Access: Free. Self-paced.

Scope: This UCSF course is specifically designed by Dr. Andi Tenner for Emergency residents who are going to work at Muhimbili National Hospital in Tanzania. However it is useful for any trainee who will be working in an emergency setting in a resource-limited setting. There are articles, lectures, and cases, which cover a broad range of possible emergency topics, cultural competency/humility, burden of disease information, and ethics.

Quality: Very good.

Time to Complete: 5 hours.

2. Women's Health Curriculum: Clinical Care in Low-Resource Settings

<https://www.apgo.org/grants/grant/863-clinical-care-in-low-resource-settings.html>

Access: Free. Self-paced. A Certificate of completion is available.

Scope: This UCSF course uses a multimedia, case-based curriculum to prepare clinician learners to work in under-resourced settings. It is divided into four modules, each containing videos, self-assessment, and recommended reading. Modules focus on topics like identifying responsible global health experiences, diseases affecting pregnancy in Africa, health care disparity, and refugee and immigrant women's health issues, as well as travel and safety concerns. Lectures are by UCSF faculty, through the Association of Professors of Gynecology and Obstetrics.

Quality: Very good.

Group III: Websites Providing Access to a Wide-Range of Courses on Health, Economics and Development

1. MIT Open Coursework (Massachusetts Institute of Technology)

Courses and lectures can be viewed for free but there is no interaction with professors or course credit. For each course, the syllabus, readings, study materials, etc. are available, but the lectures may consist of student notes, PowerPoint slides or videos.

Access: Free. Self-paced. No certificate.

Scope: Covers a wide variety of areas in global development and these are full courses.

Quality: Varies depending on instructor and medium of instruction.

Time to Complete: These are full semester courses for MIT students.

2. Supercourse (University of Pittsburgh)

This website provides numerous unusual topics/languages

<http://www.pitt.edu/~super1/index1.htm>

Access: Free. Self-paced. No certificate.

Scope: Extremely broad. The Supercourse is a repository of lectures and research methods materials on GH and other areas of science designed to improve the teaching of health prevention and increase the number of scientific publications. Supercourse has a network of about 2 million scientists in 174 countries (together with BA African Networks) sharing a free library of about 198,500 lectures in 33 languages (together with Science Supercourse). The Supercourse has been produced at the WHO Collaborating Center University of Pittsburgh. There are many topics and these are cross-references to related topics in each lecture. Slides and written text are the method of teaching.

Quality: Varies depending on the instructor. The main advantage of this site is the access to many lecture materials from around the world on wide range of topics and in multiple languages.

Time to Complete: 30 minutes and up.

3. The Global Health Training Center

<https://globalhealthtrainingcentre.tghn.org/resources/Online-Training-Courses/>

The Global Health Training center is a portal to a wide range of websites offering everything from online master's degrees, to libraries for health research reporting, to training modules aimed at learners at a variety of levels to Online Training Courses. It includes the portals for NIH and USAID training resources. Offers short courses and modular courses on topics like Introduction to Clinical Research, and Essential Elements of Ethics.

Access: Free

Scope: Very broad and includes subject matter targeted at range of learners from community health workers to seasoned research professionals.

Quality: Good – excellent.

Time to Complete: Varies.

4. Johns Hopkins School of Public Health Open Courseware

<http://ocw.jhsph.edu/index.cfm/go/find.browse#collections/collectionID/6/>

The Johns Hopkins School of Public Health Open Courseware provides a number of free public health courses and collections. Collections in the topic area of Public Health in Developing Countries include slides with separate audio. Courses include topics like the Epidemiology of Infectious Diseases and Issues in Mental Health Research.

Access: Free

Scope: Very broad and targeted for academic learners

Quality: Generally high

Time to Complete: These are full quarter courses for JH students.

Group IV: Courses on Ethics in Global Health

1. Video “First, Do No Harm”

<https://vimeo.com/22008886>

Access: Free

Scope: A short film sponsored by the Canadian Medical Students Association and others that is very thoughtful about what it means to be a learner in a developing country, addresses moral and ethical questions and gives a picture of some of the clinical dilemmas that may be faced. Good resource for developing cultural sensitivity and humility. For learners who have no experience abroad or those interested in challenging their role as a provider abroad. This video is included in the course: EdX: “The Practitioner’s Guide to Global Health” (Boston University), Part 1.

Quality: Very good

Time to Complete: 45 minutes

2. Ethical Challenges in Short-Term GH Training (Johns Hopkins)

<http://ethicsandglobalhealth.org>

Access: Free

Scope: Short course on common ethical issues encountered in short-term training and research situations for trainees across several health disciplines. Short texts and video scenarios with multiple choice questions and good explanations of the appropriate answers are the method of teaching.

Quality: Excellent, especially for short-term training situations.

Time to Complete: About 90 minutes

3. Global Health Ethics Student Curriculum (American Medical Student Association [AMSA])

<http://www.amsa.org/advocacy/action-committees/global-health/ethics/>

Access: Free

Scope: Ethics for medical students studying abroad and comprised of Pre-Departure and Post-Return workshops for both Research Ethics and Clinical Ethics. Provides a Facilitator’s Guide and a Student Handout for each workshop as well as evaluation forms. All text based with detailed discussions in the Facilitators Guide about each case presentation; very good and relevant scenarios. The course introduces the concept of cultural competency, which has since been superseded by the idea of cultural humility, a concept that is missing from this course.

Quality: Very Good.

Time to Complete: About 1 hour for each workshop.

4. Research Ethics Online Training (Global Health Training Center)

<https://globalhealthtrainingcentre.tghn.org/elearning/research-ethics/>

Access: Free. Certificate available without cost

Scope: Broad, covers a range of ethical issues that are appropriate for a range of learners including students, investigators and members of institutional review boards/ethics committees.

Quality: Very Good, with text and links to accompanying articles and some videos.

Time to Complete: 4-5 hours for the whole course.