AGENDA
University of Colorado Anschutz Medical Campus
September 24-28, 2018

Global Health Course Day 1: Monday, September 24, 2018
Location: Education Building 2 North, Room 1206

8:30-8:45 Course Participant Check-In
8:45-9:00 Overview of the Global Health Course – James Gaensbauer & Dan Olson
9:00-9:45 Global Health Policy: Sustainable Development Goals – Steve Berman
Learning Objectives
1. To understand basic concept of global health
2. To gain knowledge of the Sustainable Development goals
3. To understand the Guatemala Trifinio project

9:45-10:00 Break

Topic: Disease Prevention and Eradication

10:00-10:50 Disease Control and Eradication: Smallpox, Polio, and Others – Jon Andrus
Learning Objectives
1. Define disease control, accelerated disease control, elimination, and eradication
2. Specify advantages, disadvantages, and current roles of the live, attenuated oral polio vaccines and the inactivated polio vaccines used in eradication
3. Explain how vaccination strategies for measles and rubella elimination differ from polio strategies
4. Understand the remaining challenges and risks to achieving global polio eradication
5. Describe how accelerated vaccination strategies may or may not contribute to capacity development in developing countries
6. Explain how measles and rubella elimination are linked to global health security


11:40-12:40 Lunch

Topic: Global Health Organizations and Working in Context

12:45-1:45 Jeopardy: Can you name the key global health players? – Gretchen Domek
Learning Objectives
1. Discuss the development and history of some of the largest international health organizations
2. Discuss the functions and roles of the major organizations impacting global health (including multilateral, bilateral, governmental, and non-governmental agencies)
3. Identify available resources and abilities (strengths and limitations) of organizations that respond to global health needs
1:45-2:30  Capacity Building & Sustainable Development in Global Health – Cal Wilson

**Learning Objectives**
1. Discuss the key elements of effective health capacity building in a developing country, with a focus on primary health care development
2. Understand the basic principles of sustainable health system development
3. Provide examples of effective and ineffective sustainable health system development on both a local and national level

2:30-2:45  Break

2:45-3:30  Ethical Issues in International Development & Global Health – Elizabeth Shick

**Learning Objectives**
1. Understand the concept of Global Health Ethics in both a conceptual and practical framework
2. Understand the key ethical issues in Global Health
3. Understand the role of organizations and individuals in maintaining standards of Global Health ethics

3:30-4:15  Customs and Culture in Global Health – Lisa Abuogi

**Learning Objectives**
1. To understand cultural adaptation in global health programming and research
2. To identify steps in successful cultural adaptation

4:15-4:30  Quiz
Global Health & Disasters Course

AGENDA

Global Health Day 2: Tuesday, September 25, 2018
Main Classroom: Education Building 2 North, Room 1206

**Topic: Respiratory Conditions**

8:30-8:45  Monday’s Quiz Recap

8:45-9:15  Pneumonia – Ed Janoff

9:15-9:45  Pandemic Influenza – Suchitra Rao
   **Learning Objectives**
   1. Understand the historic perspective on influenza including lessons learned from past pandemics
   2. Describe the influenza virus types, subtypes and epidemiology
   3. Discuss the implications of antigenic shift and drift
   4. Review clinical manifestations of influenza

9:45-10:00  Break

10:00-10:45  The Growing Global Health Threat of Air Pollution – James Crooks
   **Learning Objectives**
   1. Describe the health effects of major gaseous and particulate air pollutants
   2. Compare sources responsible for indoor air pollution versus outdoor air pollution
   3. Articulate the health burden of air pollution in low-income countries

10:45-12:00  Tuberculosis & Case Discussion – Bob Belknap
   **Learning Objectives**
   1. Recognize the challenges and steps for diagnosing active tuberculosis (TB)
   2. Identify pros and cons of different tests for diagnosing latent TB infection
   3. Understand basics of treatment for active disease and latent TB infection

12:00-1:00  Lunch

**Topic: Enteric Conditions**

1:00-2:00  Diarrheal Pathogens, Enteric Enteropathy and Malnutrition – James Gaensbauer

2:00-2:45  Intestinal Parasites – James Gaensbauer
   **Learning Objectives**
   1. Understand a basic classification of human parasitics and what is meant by Soil Transmitted Helminths
   2. Describe the massive global burden of disease associated with soil transmitted helminths
   3. Review acute clinical aspects of common intestinal parasites
   4. Describe current approaches to public health control of STH’s, including advantages and disadvantages of each approach

2:45-3:00  Break

3:00-4:15  WASH: Water, Sanitation, and Hygiene – Beth Carlton
   **Learning Objectives**
   1. Describe the major transmission pathways of diarrheal diseases
   2. Define safe water, sanitation and hygiene in the context of diarrheal disease prevention
   3. Describe recent progress and challenges in providing safe water, sanitation and hygiene
# AGENDA

**Global Health Day 3: Wednesday, September 26, 2018**  
Main Classroom: Education Building 2 North, Room 1206

## Topic: Chronic Diseases

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:30-8:45</td>
<td>Tuesday’s Quiz Recap</td>
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| 8:45-9:15 | **Chronic Kidney Disease of Unknown Origin** – Richard Johnson  
Learning Objectives  
1. Discuss the epidemiology and clinical manifestations of the epidemic of kidney disease that is occurring in Central America  
2. Discuss potential mechanisms by which heat stress and dehydration may cause chronic kidney disease and its relationship with climate change  
3. Discuss the potential for hydration, rest and shade as a mechanism for preventing kidney damage |
| 9:15-10:00 | **Obesity & Diabetes** – Dana Dabelea  
Learning Objectives  
1. Be able to describe the worldwide distribution and temporal trends of both obesity and diabetes  
2. Be able to describe the underlying forces responsible for these patterns  
3. Be able to detail the difficulties in diagnosis, treatment and prevention that occur in low and middle income countries  
4. Be able to Identify critical components of national capacity for prevention and control |
| 10:00-10:15 | Break |
| 10:15-11:00 | **The Current Picture of Mental Health Care Worldwide**– Gwen Vogel Mitchell  
Learning Objectives  
1. Examine the Global Mental Health (GMH) Burden  
2. Explore what are we treating & how are we treating it  
3. Survey success stories & recent gains in Global Mental Health treatment and care  
4. Inspect what is still missing in the GMH discourse |
| 11:00-12:15 | **HIV/AIDS & Case Discussion** – Lisa Abuogi  
Learning Objectives  
1. To understand current global epidemiology and trends for HIV  
2. To identify clinical presentation of HIV with focus on children  
3. To understand basic HIV diagnosis and treatment approaches in resource-limited settings |
| 12:15-1:15 | Lunch |
Global Health & Disasters Course

Topic: Vector Borne Diseases

1:15-2:00 Dengue, Chikungunya, Zika – Hal Margolis

Learning Objectives
1. Understand arboviral diseases caused by two virus types (Flaviviruses, Alpha viruses) transmitted by Aedes aegypti
2. Understand how to differentiate these diseases based on epidemiology, key clinical findings when present, and laboratory testing.
3. Understand extensive work underway to develop primary prevention strategies, new vector control methods and vaccines.
4. Understand the do’s and don’ts of dengue medical management

2:00-2:30 Malaria – Katie Colborn

Learning Objectives
1. Understand the challenges around diagnosing malaria in LMICs, common diseases that can be mistaken for malaria in these settings, and potential impacts of misdiagnosis
2. Know the key interventions for reducing malaria transmission, and what the challenges are that each face moving forward
3. Know the outstanding knowledge gaps that need to be answered in order to achieve elimination and eradication

2:30-2:45 Quiz

2:45-3:00 Break & Red and Yellow groups walk to lab [half of group released early]

3:00-5:00 Lab – Research Tower 1 North, Room 1408 and Room 1409
AGENDA

Global Health Day 4: Thursday, September 27, 2018
Main Classroom: Education Building 2 North, Room 1206

Topic: Women, Children, and Vulnerable Populations

8:30-8:45 Wednesday’s Quiz Recap

8:45-9:30 Neonatal Survival – Susan Niermeyer
Learning Objectives
1. Understand the importance of newborn survival to global child survival
2. Know when, where, and why newborns die
3. Describe the Every Newborn Action Plan goals for stillbirth, newborn, and maternal death
4. Identify potential actions and challenges to improving newborn survival

9:30-10:00 Maternal Mortality in the Developing World – Gretchen Heinrichs
Learning Objectives
1. Name the five direct causes of Maternal Mortality in the Developing World that comprise the largest proportion of maternal deaths
2. Give case examples for each of the main 5 direct causes of Maternal Mortality in the Developing World
3. Describe 2 medications and 2 interventions that can prevent maternal mortality

10:00-10:15 Break

10:15-11:45 Labor and Delivery Workshop – rotating breakout – start in room assignments below
Main classroom 1206  Small Group Room 1207  Small Group Room 1204  Small Group Room 1210
Learning Objectives
1. Understand the basic steps in normal delivery in the field
2. Understand how to manage postpartum hemorrhage
3. Understand the expanded differential diagnosis for seizure in pregnancy in the developing world
4. Understand how to resolve a shoulder dystocia

11:45-12:45 Lunch

12:45-1:30 Special Considerations for Refugee Care – Janine Young
Learning Objectives
1. Review the history of the US refugee resettlement program, immigration policy and current challenges
2. Understand overseas and domestic health screenings provided for US-bound refugees and compare to screenings provided for other newly arriving immigrant populations
3. Learn about medical issues faced by newly arriving refugees and other immigrant groups
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<tr>
<td>1:30-2:00</td>
<td>Early Childhood Development – Maureen Cunningham</td>
<td>Learning Objectives</td>
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<td>1. Understand the prevalence of delayed Early Development in Low and Middle Income Countries</td>
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<td>2. Understand the factors that influence the acquisition of developmental competencies in young children living in low and middle income countries</td>
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<td>3. Understand current approaches to the promotion of Early Child Development in Low and Middle Income Countries</td>
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<td>2:00-2:30</td>
<td>Occupational Health – Lee Newman</td>
<td>Learning Objectives</td>
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<td>1. To understand the importance of worker health in the global economy and as a facet of global population health.</td>
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<td>2. To learn the major public health challenges facing workers worldwide</td>
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<td>3. To understand how clinicians can contribute to improving worker health</td>
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<td>2:30-2:45</td>
<td>Quiz</td>
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<td>Break &amp; Blue and Green groups walk to lab [half of group released early]</td>
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Global Health Day 5: Friday, September 28, 2018
Main Classroom: Education Building 2 North, Room 1202

Topic: Looking Toward the Future

8:30-8:45 Thursday’s Quiz Recap

8:45-10:00 Emerging Infectious Diseases & Case Discussion – Sam Dominguez
   Learning Objectives
   1. List the drivers of pathogen emergence.
   2. List the 3 major classifications of emerging infectious diseases and give several examples of each.
   3. List several important reservoirs for emerging pathogens.
   4. Discuss approaches to investigating an outbreak
   5. Discuss role/importance of infection control and prevention.

10:00-10:45 Technology-Based Health Promotion in the Global Setting – Cynthia Hazel
   Learning Objectives
   1. Describe at least two benefits to using mobile health technology solutions in the global setting
   2. Propose at least one appropriate technology solution to use in a global setting
   3. Describe priorities and gaps in the field of mHealth

10:45-11:00 Break

11:00-11:45 Climate Change and Human Health – Jay Lemery
   Learning Objectives
   1. Develop critical understanding of the evidence behind climate change and current climate projections
   2. Explore the physiological, ecological and social interactions and exposure pathways resulting in health impacts from climate change
   3. Describe health care system based and policy based health interventions that address the health threats of climate change

11:45-12:30 Super Bugs & Drug Resistance – Mario Melgar
   Learning Objectives
   1. Acknowledge that trends of antimicrobial resistance in LMIC area increasing
   2. Understand the differences and similarities of risk factors for antimicrobial resistance between high and LMIC
   3. Recognize the most important elements of antibiotic resistance in Guatemala as an example of resistance in LMIC
   4. Discriminate between best strategies for antimicrobial resistance prevention

12:30-1:30 Lunch

1:30-2:00 Quiz and Final Recap

2:00-3:00 Panel discussion: Career Pathways in Global Health
   • May Chu, PhD
   • Dan Olson, MD
   • Bruno Sobral, PhD
AGENDA: Pediatrics in Disasters
University of Colorado Anschutz Medical Campus
October 1-4, 2018

Pediatrics in Disasters Course Learning Objectives

- Students will understand what makes a disaster.
- Students will recognize the components of disaster response.
- Students will understand the need for disaster preparedness and training.
- Students will learn about the American Academy of Pediatrics (AAP) and Pan American Health Organization (PAHO) Pediatrics in Disaster training program.