AGENDA with LEARNING OBJECTIVES
University of Colorado Anschutz Medical Campus
October 10-21, 2016

Pediatrics in Disasters Day 1-4
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.
AGENDA with LEARNING OBJECTIVES

Global Health Course Day 1: Monday, October 17, 2016

Location: Education Building 2 North, Room 1103

Global Health: Policy, Cultural Context, and Community Engagement

8:45-9:00 Course Participant Check-In

9:00-9:15 Overview of the Global Health Course – Steve Berman

9:15-9:45 Global Health Policy – Steve Berman

9:45-10:15 Community Engagement: Cultural Context – Laura Newberry

10:15-10:30 Break

10:30-11:00 The Global Health Response to the Ebola Epidemic – May Chu

Learning Objectives
1. Global coordination and organization involved in the Ebola epidemic response
2. Description of the Ebola response on the ground and challenges to overcome

11:00-11:30 Best mHealth and GIS Practices Used in Developing the Tanzania Health Information System – Deborah Thomas

Learning Objectives
1. Describe a mHealth solution, T-HIT specifically, in terms of key Diffusion of Innovation theoretical elements, i.e. its relative advantage over and compatibility with existing systems, and simplicity and ease of use.
2. Demonstrate T-HIT trialability with health workers over a 3-month period in Misungwi District, Tanzania, and document system capacity for increased HIV testing; identification of new HIV infections and delivery of ART to mothers and infants.
3. Illustrate the benefit of GIS mapping as a reporting tool.

11:30-12:00 Ethical Guidance on Quality of Care in Global Health – Matthew Wynia

Learning Objectives
1. Define the difference between conventional, contingency and crisis capacity and describe how these affect resource use and quality of care.
2. Recognize that professional ethical standards do not change during disasters, though context does.

12:00-1:00 Lunch

1:00-1:30 Community Engagement: Use of Mobile Technologies in Health Promotion and Disease Management – Global Innovations – Sheana Bull

Learning objectives
1. Consider opportunities for using cell phones and social media in health promotion and disease management.
2. Identify reasons why community engagement and technology are both promising for health intervention dissemination and sustainability.
3. Consider multiple strategies from the global south for using cell phones and social media in health promotion and disease management.
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<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter</th>
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| 1:30-2:00 | Community Engagement: Achieving Sustainability with Community Health Workers – Gretchen Berggren | Learning Objectives:  
1. Understand the difference between serving the "self-selected" people who come to a clinic vs. reaching every member of an under-served community with neighborhood-based preventive services at the hands of community health workers  
2. Understand the definition and usefulness of three kinds of community health workers: resident home visitors, polyvalent outreach workers, and specialized workers (such as nutrition-aids) and their training and supervisory requirements  
3. Understand requirements for training CHWs to achieve behavioural change in the populations they serve |
| 2:00-2:30 | Project CURE – Doug Jackson                      |                                |
| 2:30-2:45 | Break                                             |                                |
| 2:45-3:15 | Health Systems Capacity Building – Blair Gifford  |                                |
| 3:15-3:45 | Water and Sanitation: a Community Based Approach – Joshua Knight | Learning Objectives:  
1. Define Sustainability with respect to international development projects, using the 5 main areas of sustainability.  
2. Identify best practices for each of the 5 areas of sustainability.  
3. Understand the pitfalls of past international development projects. |
| 3:45-4:45 | 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 |
Global Health Day 2: Tuesday, October 18, 2016
Main Classroom: Education Building 2 North, Room 1103
The Neglected Tropical Diseases

AGENDA with LEARNING OBJECTIVES

8:30-9:15 Malaria and Dengue – Hal Margolis

9:15-9:45 Zika Virus Outbreak in the Americas – David Beckham
   Learning Objectives
   1. Understand the pathogenesis of West Nile virus infection in human cases of acute encephalitis.
   2. Obtain a basic understanding of the emerging field of Zika virus epidemiology and pathogenesis research.
   3. Describe the basic principles and interactions between viral life cycles, environment, and novel host interactions that drive the emergence of novel viral pathogens.

9:45-10:30 Chagas, Trypanosomiasis, and Leishmaniasis – Dan Olson
   Learning Objectives
   1. Understand the pathogenesis, epidemiology, clinical presentation, diagnostic methods, and treatment for Chagas (American Trypanosomiasis), African Sleeping Sickness (African Trypanosomiasis), and Leishmaniasis.
   2. Understand the larger public health impact of these neglected tropical diseases

10:30-10:45 Break

10:45-11:30 Small Group Session: Case Histories Part 1

11:30-12:15 Onchocerciasis, Lymphatic Filariasis and Loa Loa – Justin Searns
   Learning Objectives
   1. Be comfortable with clinical presentations that help differentiate Onchocerciasis, Filariasis, and Loa loa
   2. Understand current treatment recommendations for all three infections
   3. Gain foundation in potential complications to worry about for these patients

12:15-1:15 Lunch

1:15-1:45 Small Group Session: Case Histories Part 2

1:45-2:30 Leptospirosis, Typhoid, and Other Fevers – Hal Margolis

2:30-2:45 Break

2:45-3:45 Intestinal Parasites: Helminths, Tapeworms, Protozoa – James Gaensbauer

3:45-5:00 Small Group Session: Case Histories Part 3
AGENDA with LEARNING OBJECTIVES

Global Health Day 3: Wednesday, October 19, 2016
Main Classroom: Education 2 North, Room 1103
Emerging and Re-emerging Diseases

8:00-8:45 Vaccines: Global impact of a preventive technology – Edwin Asturias

8:45-9:15 Influenza – Wayne Sullender
Learning Objectives
1. Understand the mechanisms by which antigenic shift and antigenic drift occur in influenza viruses and the epidemiologic implications of these changes.
2. Recognize the burden of disease due to influenza in developing countries and among displaced populations.
3. Describe the options for the prevention of influenza virus infections and planning for influenza pandemics.

9:15-10:00 Small Group Session: Influenza – Breakouts

10:00-10:15 Break

10:15-10:45 What you need to know about diagnosing and treating TB: a preventable, fatal disease – Robert Belknap
Learning Objectives
1. Explain the steps for diagnosing active and latent TB including
   a. sensitivity of sputum smears
   b. role of interferon-gamma release assays (IGRAs) and nucleic acid amplification tests (NAATs)
2. List the first-line drugs used for the treatment of drug susceptible active and latent TB
3. Describe the resistance patterns that define MDR and XDR TB.

10:45-11:30 Small Group Session: TB – Breakouts

11:30-12:15 HIV: Elimination, Cure and Treatment – Teena Sebastian
Learning Objectives
1. Review the epidemiology of global HIV
2. Describe global goals in the Fight Against HIV
3. Update the latest on the AIDS Vaccine
4. Describe the strategies known as Positive Prevention and Treatment as Prevention

12:15-1:15 Lunch

1:15-2:15 Small Group Session: HIV – Breakouts
Emerging Infectious Diseases – 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.

See your lab group schedule for the day you are assigned (not based on your color coded breakout group).
• Assigned for today – please walk to lab
• Not assigned – you are finished for the day

Lab – Research Tower 1 North         Room 1408 and Room 1409
AGENDA with LEARNING OBJECTIVES

Global Health Day 4: Thursday, October 20, 2016
Main Classroom: Education 2 North, Room 1103
Conditions and Diseases of Vulnerable Populations

8:15-8:45 Neonatal Mortality – Susan Niermeyer

8:45-9:15 Maternal Mortality in the Developing World – Gretchen Heinrichs

Learning Objectives
1. Name the five major causes of Maternal Mortality in the Developing World
2. Name 2 medication interventions that can decrease maternal mortality
3. Describe 2 services offered in each clinical level: Basic Emergency Obstetric Care and Comprehensive Emergency Obstetric Care

9:15-9:30 Break

9:30-11:15 Labor and Delivery Workshop – Rotating Breakout Rooms 1103 & 1202

Learning Objectives
1. Review and practice the steps in normal delivery
2. Review and practice the maneuvers to resolve a shoulder dystocia
3. Review the steps and maneuvers needed to assist with a postpartum hemorrhage

11:15-11:45 A Gender Lens on Global Health: Our Role as Providers, Researchers and Advocates – Gretchen Heinrichs

Learning Objectives
1. Understand how to apply a ‘gender lens’ to global health initiatives
2. Understand gender inequality and gender-based violence

11:45-12:15 Child Abuse: An International Perspective – Des Runyan

Learning Objectives
1. Understand the role of culture and tradition in selection of disciplinary techniques
2. Put the frequency of harsh punishment in the context of social development and the education and opportunities for girls
3. Understand the importance of medical attention to abuse as a strategy for changing society

12:15-1:15 Lunch

1:15-1:45 Global Burden of Delayed Early Child Development – Maureen Cunningham

Learning Objectives
1. Learn the global burden of developmental delay among young children and the long-term consequences of this problem.
2. Understand the factors that place young children in developing countries at increased risk for developmental delay.
3. Learn the recommended components of intervention programs designed to improve developmental outcomes of young children in resource poor communities.
1:45-2:15  Special Considerations for Refugee Care – Janine Young

**Learning Objectives**
1. Learn about the US refugee resettlement program including the demographics of those resettled and legal definitions of refugees versus other immigrants.
2. Review specific case examples of resettled refugee and immigrant children
   a. Understand overseas presumptive parasitic treatment practices for refugees resettling to the US.
   b. Learn of US recommended screening and treatment practices for resettled refugees and compare to screenings of other immigrants.
   c. Discuss medical issues faced by refugees and immigrants who have resettled in the US.

2:15-2:45  Occupational Health – Lee Newman

**Learning Objectives**
1. To understand the importance of worker health in the global economy and as a facet of global population health.
2. To learn the major public health challenges facing workers worldwide.
3. To understand how clinicians can contribute to improving worker health.

2:45-3:00  See your lab group schedule for the day you are assigned (not based on your color coded breakout group).
- Assigned for today – please walk to lab.
- Not assigned – you are finished for the day.

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

Global Health Day 5: Friday, October 21, 2016
Main Classroom: Education 2 North, Room 1107
Specialty & Sub Specialty Care

8:00-8:30
Chronic Kidney Disease and Renal Conditions – Richard Johnson
Learning Objectives
1. Describe the characteristic population developing Mesoamerican Nephropathy in Central America
2. Review current ideas on the possible causes
3. Discuss the evidence that this may be a climate-sensitive disease
4. List a few other areas of the world where similar epidemics are being described

8:30-9:00
Global Burden of Cancer in LMIC’s – Rosemary Rochford
Learning Objectives
1. Understand the role of population based cancer registries in determining the burden of cancer
2. Understand the risk factors for cancer in LMIC’s and how they differ from resource rich countries

9:00-9:30
Cardiovascular Disease in Africa and Beyond – Ed Havranek
Learning Objectives
1. Understand the basic epidemiology of cardiovascular disease in Sub-Saharan Africa
2. Gain insight into the relationship between political conditions and population health
3. Reconsider strategic objectives in global health

9:30-9:45
Break

9:45-10:15
Pre-Hospital Emergency Care in sub-Saharan Africa – Nee-Kofi Mould-Millman
Learning Objectives
1. To review the burden of acute disease in sub-Saharan Africa
2. To define out-of-hospital versus pre-hospital emergency care
3. To discuss challenges delivering pre-hospital emergency care
4. To discuss models and innovations in pre-hospital emergency care

10:15-10:45
Surgery in Low-Resource Settings – David Kuwayama
Learning Objectives
1. Recognize several surgical disease phenotypes not often encountered in the developed world.
2. Identify differences in infrastructure between war zone health care environments and typical first world environments.
3. Interpret the context and hidden meanings behind various patient care decisions in complicated environments with marginalized populations.
Global Oral Health – Elizabeth Shick

**Learning Objectives**
1. Gain an understanding of the field of global oral health.
2. Understand the role of the World Health Organization.
3. Review region specific oral health problems.

Kenya Trauma Registry – Fatima Paruk

**Learning Objectives**
1. Evaluate and discuss common challenges in data collection in LMIC’s
2. Understand concept of minimum data set and standardized data collection methods in injury surveillance
3. Recognize the role of existing and emerging technology in conducting research and improving quality of care delivery in the global health setting
4. Translating gaps in care to policy

Lunch

Final Exam for Global Health Section