Global Health Day 1: Monday, November 9, 2015
Main Classroom: Education Building 2 South, Room 2305
Global Health: Policy, Culture Context, and Community Engagement

8:45-9:00 Registration

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

9:15-9:45 Global Health Policy – Steve Berman
   **Learning Objectives**
   1. Understand what is meant by global health
   2. Know the 8 Millennium development goals
   3. Know who are the major funders for global health programs
   4. Know the five main killers of children under 5 years of age
   5. Understand what makes a solution transformative

9:45-10:15 Health Impacts of Global Climate Change – Jay Lemery
   **Learning Objectives**
   1. The basis of accepted physical science on climate change
   2. The health impact of climate change
   3. How the medical community can help to change risk assessment

10:15-10:30 Break

10:30-11:00 Using GIS for Public Health and Disaster Planning – Deborah Thomas
   **Learning Objectives**
   1. To understand what health GIS is in basic terms
   2. To identify the potential uses of GIS as a tool to understand environment, behavior, and disease
   3. To appreciate the importance of study design and quality data
   4. To illustrate these points by highlighting current projects utilizing GIS

11:00-11:30 Community Development: Making it Stick – Jamie Van Leeuwen
   **Learning Objectives**
   1. Overview of the Global Livingston Institute
   2. Understand the approach Global Livingston Institute is taking with international development
   3. Learn how to get involved

11:30-12:00 Project CURE – Doug Jackson
12:00-1:00 Lunch

1:00-1:30 Health Systems Capacity Building – Cal Wilson
   **Learning Objectives**
   1. Describe the nature and components of an effective national health system
   2. Discuss key elements in improving the capacity of a national health system
   3. Describe the challenges in building health system capacity
   4. Apply tested strategies to meet the identified challenges of capacity building
1:30-2:00 Community Participation in Planning for Health – Kathy Kennedy

**Learning Objectives**
1. Appreciate the domains of the determinants of health and the proportion of health that is determined by health care.
2. Understand the continuum of community involvement in health, and the rationale for empowering the community to set its own health agenda.

2:00-2:30 Community Engagement: Cultural Context – Lisa Abuogi

2:30-3:00 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.

3:00-3:30 Ethical Guidance on Quality of Care during Global Health Disasters– 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.

3:30-3:45 Break

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
AGENDA

Global Health Day 2: Tuesday, November 10, 2015
Main Classroom: Education Building 2 South, Room 2305

The Neglected Tropical Diseases

8:30-9:00 Vaccines: Global impact of a preventive technology – Edwin Asturias
   Learning Objectives
   1. Discuss the impact on vaccines on childhood mortality and the incidence of infectious diseases in the world
   2. Describe the current gaps and challenges to make vaccines available to more children globally
   3. Explain the new vaccine in the horizon for advancing global health

9:00-10:30 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

10:45-12:00 Onchocerciasis, Lymphatic Filariasis and Loa Loa – Justin Searns
   Learning Objectives
   1. Be comfortable with clinical presentations that help differentiate Onchocerciasis, Filariasis, and Loiasis (loa loa)
   2. Understand current treatment recommendations for all three infections
   3. Gain foundation in potential complications to worry about for these patients

12:00-1:15 Lunch

1:00-2:00 Leptospirosis and Typhoid – Eric Simoes

2:00-3:00 Fever Case Studies Part 1 – Sarah Saporta-Keating
   Learning Objectives
   1. To review a few interesting case presentations of fever in people returning from various parts of the world
   2. To discuss the approach to fever in the returning traveler
   3. To understand the resources available when approaching a patient that will be traveling or who has traveled

3:00-3:15 Break

3:15-4:00 Fever Case Studies Part 2 – Sarah Saporta-Keating
   See learning objectives above

4:00-5:00 Intestinal Parasites: Helminths, Tapeworms, Protozoa – James Gaensbauer
   Learning Objectives
   1. Develop a framework for understanding the classification and nomenclature of intestinal parasitic diseases
   2. Understand the magnitude of the global burden of intestinal parasitic diseases in childhood
   3. Outline global health strategies to decrease this burden
   4. Understand the clinical manifestations, diagnosis and management of selected important intestinal parasites through discussion of real-life cases
AGENDA

Global Health Day 3: Wednesday, November 11, 2015
Main Classroom: Education Building 2 North, Room 1308

Emerging and Re-emerging Diseases

8:15-8:45  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.

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. Describe the common clinical presentations of influenza infection.
3. Describe the options for the prevention of influenza virus infections.

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

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

11:30-12:00  HIV: Elimination, Cure and Treatment – Lisa Abuogi
Learning Objectives:
1. Describe the global epidemiology and health impact of HIV
2. Discuss current approaches to eliminate transmission, prevent new infections, and treat HIV

12:00-1:00  Lunch

1:00-2:00  Small Group Session: HIV
2:00-2:30 Malaria – Edwin Asturias

Learning Objectives
1. Discuss the current epidemiology and understanding of the transmission and clinical presentation of malaria
2. Define the most safe and effective therapy for patients with malaria
3. Given the current advances of diagnosis and treatment of malaria, comprehend the current strategies for global malaria elimination.

2:30-3:00 Dengue – Edwin Asturias

Learning Objectives
1. Describe the burden and epidemiology of dengue around the world
2. Learn how to identify, diagnose and treat patients with dengue
3. Discuss the current advances in the prevention and control of dengue

3:00-3:15 Break/Green and Yellow Groups Walk to Lab

3:15-5:15 Small Group Session: Case Histories

Lab – Research Tower 1 North, Rooms 1408 & 1409
AGENDA

Global Health Day 4: Thursday, November 12, 2015
Main Classroom: Education Building 2 North, Room 2106
Conditions and Diseases of Vulnerable Populations

8:30-9:00  Neonatal Mortality – Janis Johnson
Learning Objectives
1. Understand the contribution of neonatal death to under-5 child mortality
2. Identify the three major causes of neonatal death globally
3. Identify interventions that reduce neonatal death globally

9:00-9:30  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

9:30-9:45  Break

9:45-11:15 Labor and Delivery Workshop – Gretchen Heinrichs
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 The 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  Cardiovascular Disease: Global Perspective – David Goff
Learning Objectives
1. Apply rigorous definitions of cardiovascular disease (CVD) and distinguishing the major forms of CVD
2. Relate effort to the course of development of coronary heart disease (CHD)
3. Estimate the frequency of occurrence of CVD in the US in the early 21st century
4. Assess CVD as a global phenomenon
5. Predict plausible scenarios regarding the likely burden of CVD in the future

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  Break/ Blue and Red Groups Walk to Lab

3:00-5:00  Small Group Session: Case Histories
Lab – Research Tower 1 North, Rooms 1408 & 1409
AGENDA

Global Health Day 5: Friday, November 13, 2015
Main Classroom: Education Building 2 North, Room 1202
Sub Specialty & Specialty Care

8:15-8:45  Plastic Surgery Care and Research in Guatemala: Opportunities and Challenges – Fred Deleyiannis
Learning Objectives
1. Understand the Scope of Practice of Plastic Surgery in the Third World
2. Realize the Clinical Research Opportunities for Plastic Surgery in the Third World

8:45-9:15  The Ebola Outbreak in West Africa: Scope and Response – Nee-Kofi Mould-Millman
Learning Objectives
1. To understand pathogenesis and clinical syndrome of Ebola Virus Disease
2. To appreciate socio-cultural and healthcare systems factors contributing to local transmission
3. To understand and assess various response strategies to the Ebola outbreak in West Africa

9:15-9:45  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.

9:45-10:00  Break

10:00-10:30  Pediatric Oncology in Resource Limited Settings – Leana May
Learning Objectives
1. An understanding that the majority of pediatric cancer diagnosed occurs in middle or low income nations
2. An overview of the challenges of diagnosing and delivering cancer care in resource constrained settings
3. An understanding of the role global consortiums and collaborations play in developing locally adapted cancer care guidelines for different global settings with varying resources

10:30-11:00  A brief view of the state of international neurosurgery – Ramesh Kumar
Learning Objectives
1. Gain an understanding on the lack of surgical and neurosurgical care in low and middle income nations
2. Understand the medical and public health concerns that result from lack of neurosurgical care
3. Understand the challenges of developing adequate neurosurgical care in low and middle income nations
4. Learn a few examples of current international neurosurgical endeavors

11:00-11:30  Arboviral Diseases around the World – Dan Pastula
Learning Objectives
1. Provide overview of arboviruses
2. Highlight specific arboviral diseases of interest
3. Understand signs and symptoms of arboviral diseases
4. Discuss treatment and prevention of arboviral diseases
11:30-12:00  Global Burden of Cancer – Tim Byers

**Learning Objectives**
2. Major cancer risk factors.
3. Major opportunities for cancer prevention and control.

12:00-12:30  Surgery in Low-Resource Settings – Yihan Lin

**Learning Objectives**
1. Explain the global burden of surgical disease.
2. Describe the inequalities of surgical care in LMICs.
3. Explain the key messages of the Lancet Commission on Global Surgery.
4. Be able to state the 6 indicators for measuring the strength of a surgical system.

12:00-1:00  Lunch

1:00-3:00  Final Exam for Global Health Section
Children in Disasters Day 1-4

**Learning Objectives**

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