Monday October 24, Day 1

8:00-8:20 Registration

8:20-8:30 Overview of the Global Health Course - Steve Berman

Monday October 24, Day 1: Global Health Policy and Community Engagement

8:30-9:00 Global Health Policy: The Millennium Development Goals (MDG) - Steve Berman

9:00-9:30 Global Health Policy: Reducing Maternal Mortality - Gretchen Heinrichs

Objectives
1. Describe the 5th MDG
2. Name the five major causes of Maternal Mortality in the Developing World
3. Describe the 3 delays that cause Maternal Mortality
4. Describe 2 policy solutions that can improve Maternal Mortality

9:30-10:00 Global Health Policy: Reducing Neonatal Mortality - Susan Niermeyer

10:00-10:15 Break

10:15-10:45 Global Health Policy: HIV – David Cohn

Objectives
1. To learn basic epidemiology about the global HIV/AIDS pandemic, including number of persons infected, mortality, and geographic distribution
2. To gain an understanding of selected health policy issues related to HIV/AIDS, with a focus on resource-limited settings
3. To cite an example of at least one large international program (ICAP) providing care and treatment to HIV-infected patients in high-burden countries

10:45-11:15 Global Health Policy: TB – Sharon Perry

Objectives:
1. Understand global burden of TB and dynamics of modern TB epidemics
2. Recognize policy and governance structures for global TB control
3. Appreciate millennial challenges for TB control

11:15-11:45 Global Health Policy: Vaccines – Edwin Asturias
11:45-12:15  Global Health Policy: WHO Pediatric Case Management Programs – Eric Simoes

12:15-1:00  Lunch

1:00-1:30  Community Engagement: Understanding the Culture and Empowering the Community – John Brett
Objectives
1. Students will understand the underlying rationale for community engagement;
2. Students will appreciate the relationship of culture and community;
3. Students will gain exposure to one dynamic method of community engagement.

1:30-2:00  Community Engagement: Training and Working with Community Health Workers - Gretchen Berggren
Objectives:
1. Gain perspective on categories of community health workers; examples from different countries;
2. Understand methodology for how to identify, recruit, train, recompense and supervise community health workers;
3. Understand the "how, when and where" of Community health workers in collaboration with and interdigitation with health care systems;
4. Gain understanding of possible advantages of "community care groups" (an emerging method) vs. community health workers;
5. Monitoring and evaluation community health worker programs

2:00-2:30  Community Engagement: Use of Cell Phones and Social Networking – Sheana Bull
Objectives:
1. Consider opportunities for using cell phones and social media in health promotion
2. Identify reasons why community engagement and technology are both promising for health intervention dissemination and sustainability
3. Consider multiple strategies for using cell phones and social media in health promotion


3:15-3:30  Break

3:30- 4:00  Taking Care of Yourself: Travel Medicine – University Hospital Travel Clinic – Diane LaMay

4:00- 4:30  Taking Care of Yourself: Emotional Needs – Brian Stafford

4:30- 5:00  Taking Care of Yourself: University Policies – Carolyn North
Tuesday October 25, Day 2: Parasitology

9:00-10:15  Intestinal Helminths, Cestodes and Protozoa – James Gaensbauer and Kevin Messacar
Objectives:
1. Understand the contribution of poverty, sanitation, and clean water on the worldwide prevalence of intestinal parasites
2. Recognize the effects of intestinal parasites on child health, nutrition, and development
3. Understand the preventative public health measures recommended for intestinal parasite control, including school-based deworming and screening
4. Understand the basics of transmission, life cycle, clinical manifestations, diagnosis and treatment of the most common intestinal parasites worldwide. Focus on the unique aspects of each pathogen.

10:15-10:30  Break

10:30-11:05  Leishmaniasis - Eric Simoes

11:05-11:40  Onchocerciasis - Edwin Asturias

11:40-12:15  Lymphatic Filariasis - Robert McClay

12:15-1:00  Lunch

1:00-1:35  Chagas - Edwin Asturias

1:35-2:30  HIV and Tropical Medicine Dermatology - Whitney High
Objectives
1. Recognize common cutaneous manifestations of HIV and tropical skin illnesses.
2. Understand the appropriate diagnostic maneuvers for HIV and tropical skin diseases.
3. Be able to counsel the returning traveler on common skin disease imported from tropical environments.

2:30-2:45  Questions and Discussion

2:45-3:00  Break and travel time to Labs

3:00-5:00  Labs
Wednesday October 26, Day 3: Women’s Health and Specialty Care in the Developing World

8:30-9:15  Cervical Cancer Prevention – Sue Hammerton
Objectives:
1. To discuss an overview of a new cervical screening method called Visual Inspection with Acetic Acid. (VIA)
2. To consider different cultural factors in setting up a cervical screening program in a developing country.

9:15-10:00  Child Abuse: An international perspective - Desmond Runyan
Objectives:
1. the participant will understand the wide variation in discipline practices around the world.
2. the participant will understand the greater frequency of harsh physical punishment in developing countries and the relationship between harsh physical punishment and maternal education
3. Shaking of infants is a remarkably common form of discipline in low income countries.

10:00-10:15  Break

10:15-11:00  Gender-based Violence in Humanitarian Settings – Jennifer Scott
Objectives:
1. Understand the different forms of GBV
2. Understand when, where, and how individuals are vulnerable to GBV
3. Have a broad understanding of research methodologies for estimating incidence and prevalence of GBV and how these data impact advocacy, funding, programming, and policy

11:00 - 12:30  Small Group Sessions (PBL)

12:30-1:15  Lunch

1:15-2:00  Oral Health/Dentistry - Kerry Maguire
Objectives:
1. Identify common risk factors for oral disease
2. Recognize the health burden of dental caries throughout the human lifespan

2:00-2:45  Ophthalmology - Darren Gregory
Objective:
1. Familiarize the student with the major diseases causing blindness in the developing world and the efforts made and challenges faced in combating them.

2:45-3:00  Break and travel time to labs

3:00-5:00  Labs
Thursday October 27, Day 4: Viral and Bacterial Diseases in the Developing World

8:30 – 9:15  Influenza - Chris Nyquist

9:15:- 10:00 Diagnosis and Management of TB - Robert Belknap

10:00-10:15  Break

10:15-10:45 Emerging Deadly Viral Infections: Ebola, Marburg, and Others - Sam Dominguez

Objectives
1. List several drivers of pathogen emergence and the characteristics of an emerging pathogen.
2. Describe the epidemiology and ecology of the major VHF viruses.
3. Describe the clinical presentation of the major VHF.
4. List the modes of transmission of the major VHF and the appropriate infection control measures to use.

10:45- 11:15  Leptospirosis and Typhoid - Edwin Asturias

11:15-12:15  Small Group Sessions (TB-PBL)

12:15-1:00  Lunch

1:00-1:45  HIV: Diagnosis and Prevention - Margaret McLees

Objectives:
1. Understand the current methodology of HIV diagnosis.
2. Understand current recommendations for prevention of mother to child transmission of HIV.
3. Understand the various methods of HIV prevention and their relative efficacy.
4. Review the most recent clinical trials relevant to HIV prevention.

1:45-2:30  HIV: Update on Antiretroviral Therapy - Betsy McFarland

Objectives
1. Understand the principles of antiretroviral treatment
2. Know the criteria for initiation of antiretroviral treatment
3. Recognize the challenges posed by resistant virus.

2:30-2:50  HIV: Translating Global Health Experiences into International
Policy: Confessions of a Medical Student - Experiments in Public Health, Politics and Advocacy - Anand Reddi

Objectives
1. Can medical students affect global health policy?
2. How does the global health community hold politicians and governments accountable?
3. How do you translate international experiences and research to affect policy?
4. What are the advocacy tools to achieve policy change?

2:50-3:00 Break

3:00-5:00 Labs

Friday October 28, Day 5

8:30-9:15 Orthopedic Care in the Developing World - Richard Fisher
Objectives:
1. Discuss the evolving burden of musculoskeletal disease in developing countries
2. Initiate treatment of common musculoskeletal problems and emergencies encountered in developing countries.

9:00-9:45 Rehabilitative Care in the Developing World – Susan Biffl
Objectives
1. The role of rehabilitation in the management of patients with functional impairments including the contributing roles of various members of the rehabilitation team.
2. Common diagnoses managed by rehabilitation medicine and common functional impairments.
3. Implications of these functional impairments for patients in the developing world.
4. Risk factors for acquiring functionally limiting conditions in the developing world and opportunities for modification of these risks.
5. Availability of rehabilitation services in the developing world and pros and cons of various models of rehabilitation that have been used.

9:45-10:30 Surgical Care in the Developing World – Jennifer Bruny

10:30-10:45 Break

10:45-11:30 Global Health Funders and NGOs - Olga Wollinka
Objectives:
1. Although most countries pay for much of their own health care costs, Multilateral (WHO) Bilateral (USAID) and Private (NGOs) funding
accounts for a significant chunk of health care costs coverage in poorest countries.

2. NGOs are important players, contributing 20% of health care aid

3. Trends in funding for NGO health programs is dictated by new research, but political will also dictates when money becomes available for a certain cause/disease.

4. If you want to have success in getting funding for your particular institution/country, it helps to be a good networker, share information and tools freely with other NGOs and MOH, be in that country, be flexible and ready to jump on new funding streams, and keep in touch with research Universities and other NGOs to be able to form consortiums, or be part of public-private partnerships.

11:30-12:30  Community Development Interventions in Low Resource Settings – Andrew Romanoff and Ted Ning (Each has 30 min)

12:30-1:30  Lunch

1:30- 3:00  Final Exam for week 1
Pediatrics in Disasters Course (Monday October 31-Friday November 4)

Monday October 31, Day 6

8:30-11:30  Maternal Mortality in the Developing World – Gretchen Heinrichs
           Labor and Delivery Workshop – Mark Deutchman and Gretchen Heinrichs

Objectives: Maternal Mortality in the Developing World
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

Objectives: Mark Deutchman—Highlights from the ALSO course
1. Review basic birth mechanics
2. Review delivery technique for normal vaginal delivery
3. Review Shoulder Dystocia Maneuvers
4. Review Breech Delivery Maneuvers
5. Review placental extraction maneuvers and cautions
6. Review Symphysiotomy technique

Objectives: Ob Skills Workshop:
1. Practice delivery technique for normal vaginal delivery
2. Practice Shoulder Dystocia Maneuvers
3. Practice Placental Extraction Maneuvers
4. Practice Breech Delivery maneuvers (if time allows)

11:30-12:15  Lecture: Disasters and Their Effects on the Population: Key Concepts – Renee King

12:15-1:00  Lunch

1:00-1:45  Lecture: Immediate Newborn Care –Susan Niermeyer

1:45-3:45  Skill Stations
           Immediate Newborn Care

3:45-4:00  Break

4:00-4:45  Lecture: Preventive Medicine and Rapid Assessments in Humanitarian Emergencies – Steve Berman
Tuesday November 1, Day 7

8:30-10:30  Small Group Sessions
            Preventive Medicine (4 groups)

10:30-11:15 Lecture: Planning and Triage in the Disaster Scenario – Tien Vu

11:15-11:45 Lecture: Management of Common Childhood Illness (IMCI) – Steve Berman

11:45-12:15 Measles: Edwin Asturias

12:15-1:00 Lunch

1:00-2:30  Small Group Sessions
            Planning and Triage (4 groups)

2:30-3:00  Dengue: Edwin Asturias

3:00-3:30  Malaria: Sara Parker
            Objectives
            1. Understand basic principles of malaria pathogenesis in the context of relevance to clinical disease and epidemiology
            2. Understand the clinical symptoms of malaria
            3. Understand the difference between uncomplicated and severe malaria
            4. Understand how to choose an antimalarial
            5. Understand where to find up-to-date resources for malaria

3:30-5:00  Small Group Sessions
            Management of Prevalent Infections
            4 groups, 4 facilitators
Wednesday November 2, Day 8

8:30-9:15  Lecture: The Emotional Impact of Disasters in Children and their Families – Brian Stafford

9:15-10:00  Lecture: Recognition and Management of Malnutrition – Nancy Krebs

10:00-10:15  Break

10:15-12:15  Small Group Sessions
  Emotional Impact
  4 groups, 4 facilitators

12:15-1:00  Lunch

1:00-1:45  Lecture: Overview of Pediatric Trauma – Joe Wathen

1:45-2:15  Lecture: Earthquake Related Trauma and Crush Injuries – Lindsey Cooper
  Objectives:
  1. Define crush syndrome and clinical manifestations of crush syndrome
  2. Describe compartment syndrome
  3. Describe clinical treatment of crush syndrome and renal preservation Therapy
  4. Prioritize care of a complex patient with a crush syndrome

2:15-3:00  Break

3:00-5:00  Trauma Skill Stations
  All groups together (4 stations)
  4 local facilitators – Wathen, ED faculty
Thursday November 3, Day 9

8:00-8:45  Lecture: Cholera - Edwin Asturias

8:45-9:15  Lecture: Diarrhea and Dehydration – Pat Mahar

9:15-10:30  Small Group Sessions
Management of Diarrhea and Dehydration
4 groups 4 facilitators

10:30-10:45  Break

10:45-12:00  Small Group Sessions
Nutrition and Malnutrition
4 groups, 4 facilitators

12:00-12:45  Lunch

12:45-1:30  Lecture: Management of Toxic Exposures –Sam Wang
Objectives:
1. Understand the increased vulnerability of children with toxic exposures
2. Identify the basic goals of toxicological disaster preparedness
3. Delineate the priorities of disaster scene staging and patient management when a hazardous material incident has occurred.

1:30-2:00  Demonstration of PPE

2:00-2:15  Break

2:15-3:45  Small Group Sessions
Management of Toxic Exposures
4 groups, 4 facilitators

3:45-4:15  Orientation for final simulation and assignment of participants
Friday November 4, Day 10

Case Reviews and Skill Stations: Final Scenario Drill

8:30-9:30  Preventive Medicine in Disaster Scenario
           (2 groups)
           Total Care of the Pediatric Patient in the Disaster
           (2 groups)

9:30-10:30  Preventive Medicine in Disaster Scenario
            (2 groups)
            Total Care of the Pediatric Patient in the Disaster
            (2 groups)

10:30-10:45  Break

10:45-12:30  Scenario: Field Drill with Multiple Victims (all groups)
              5 facilitators

12:30-1:30  Lunch

1:30-3:00  Final Exam for Disaster course