

AGENDA
Tropical Medicine Course
Monday October 24 - Friday November 4, 2011

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
- 2:30-3:15 Community Engagement: Discussion Panel Representing Africa, Asia, and Latin America – John Brett, Gretchen Berggren, Sheana Bull, Edwin Asturias, Eric Simoes, Susan Rifkin
- 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: <ol style="list-style-type: none">1. Understand the contribution of poverty, sanitation, and clean water on the worldwide prevalence of intestinal parasites2. Recognize the effects of intestinal parasites on child health, nutrition, and development3. Understand the preventative public health measures recommended for intestinal parasite control, including school-based deworming and screening4. 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 <ol style="list-style-type: none">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 <ol style="list-style-type: none">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: <ol style="list-style-type: none">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 <ol style="list-style-type: none">1. Understand the principles of antiretroviral treatment2. Know the criteria for initiation of antiretroviral treatment3. 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 Biffel

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	<p>Maternal Mortality in the Developing World – Gretchen Heinrichs Labor and Delivery Workshop – Mark Deutchman and Gretchen Heinrichs</p> <p>Objectives: Maternal Mortality in the Developing World</p> <ol style="list-style-type: none">1. Name the five major causes of Maternal Mortality in the Developing World2. Name 2 medication interventions that can decrease maternal mortality3. Describe 2 services offered in each clinical level: Basic Emergency Obstetric Care and Comprehensive Emergency Obstetric Care <p>Objectives: Mark Deutchman—Highlights from the ALSO course</p> <ol style="list-style-type: none">1. Review basic birth mechanics2. Review delivery technique for normal vaginal delivery3. Review Shoulder Dystocia Maneuvers4. Review Breech Delivery Maneuvers5. Review placental extraction maneuvers and cautions6. Review Symphysiotomy technique <p>Objectives: Ob Skills Workshop:</p> <ol style="list-style-type: none">1. Practice delivery technique for normal vaginal delivery2. Practice Shoulder Dystocia Maneuvers3. Practice Placental Extraction Maneuvers4. Practice Breech Delivery maneuvers (if time allows)
11:30-12:15	<p>Lecture: Disasters and Their Effects on the Population: Key Concepts – Renee King</p>
12:15-1:00	<p>Lunch</p>
1:00-1:45	<p>Lecture: Immediate Newborn Care –Susan Niermeyer</p>
1:45-3:45	<p>Skill Stations Immediate Newborn Care</p>
3:45-4:00	<p>Break</p>
4:00-4:45	<p>Lecture: Preventive Medicine and Rapid Assessments in Humanitarian Emergencies – Steve Berman</p>

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 <ol style="list-style-type: none">1. Understand basic principles of malaria pathogenesis in the context of relevance to clinical disease and epidemiology2. Understand the clinical symptoms of malaria3. Understand the difference between uncomplicated and severe malaria4. Understand how to choose an antimalarial5. 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: <ol style="list-style-type: none">1. Understand the increased vulnerability of children with toxic exposures2. Identify the basic goals of toxicological disaster preparedness3. 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

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| 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 |