

Introduction to Global Child Health
Elective for Pediatric Residents and Fellows
Children's National Medical Center, Washington, DC
March 30-April 3, 2009

Overall Objectives:

- Prepare participants for future international elective experiences or work in a developing country setting
- Increase exposure to global health issues including health care delivery, disease management and resource allocation
- Increase knowledge of epidemiology, diagnosis and management of common illnesses and tropical diseases affecting children in developing countries
- Provide exposure to local health care professionals working in the fields of global health research, policy and clinical care

Specific Objectives:

Each of the following sessions is designed to meet specific objectives of the Global Health Curriculum:

Monday, March 30

9:15-10:15 Child Survival

Michel Pacqué M.D., M.P.H., D.T.M.H., Macro International

- Describe the epidemiology of child morbidity and mortality worldwide and by region
- Identify risk factors for child mortality
- Become aware of international policies/strategies to improve child survival

10:30-12:00 Ethics Case Discussion

Jehanna Peerzada, MD

- Recognize ethical issues that commonly arise in international volunteer work
- Understand how to address ethical problems that are related to volunteer work and patient care in developing countries

1:00-3:30 Malnutrition/Micronutrient Deficiencies

Michael E. Zeilinger, DPM, MPH, U.S. Agency for International Development (USAID)

- Define malnutrition and describe epidemiology of childhood malnutrition worldwide
- Know the major micronutrient deficiencies and their impact on childhood illness and child survival
- Understand current strategies/policies for improving nutrition (breastfeeding, complementary feeding, micronutrient supplementation and fortification, etc.)

3:30-4:30 Clinical Assessment of Malnutrition

Kavita Parikh, MD, CNMC Faculty

- Understand the WHO Child Growth Standards, the principles behind their development and compare to other growth standards
- Know the anthropometric measures to assess acute vs. chronic malnutrition and how to apply in a clinical setting

Tuesday, March 31

8:00 – 9:00 Case Discussion

Melanie Anspacher, MD, CNMC Faculty

- Develop a differential diagnosis for children presenting with fever in developing countries
- Understand how to evaluate, diagnose and manage patients in limited resource settings

9:00 – 10:30 Sanitation, Clean Water and Hygiene

Chris McGahey, PhD, ARD, Inc.

- Understand the role of sanitation, clean water and personal hygiene in preventing childhood disease and mortality
- Describe methods of providing clean water and improving hygiene for children, families and communities in developing countries

10:30-12:00 Parasitic Diseases in Children

David Diemert, MD, FRCP, George Washington University and Sabin

Vaccine Institute

- Know the parasitic infections that most commonly cause disease in children
- Recognize the clinical manifestations of these diseases and know how to diagnosis them
- Identify treatment and control strategies for parasitic infection, specifically intestinal helminths
- Develop awareness of international policies/strategies toward control of parasitic infections

12:00-1:00 Global Health Noon Conference

Community Health Workers

Cristina Cardemil, PL-2

Evaluation of Community Health Workers in Malawi

1:15-3:00 Malaria in Children

Miriam Laufer, MD, University of Maryland

- Describe the epidemiology and burden of disease of childhood malaria in the world

- Know the common clinical presentations of malaria in children, including severe malaria
- Know how malaria is diagnosed (practical session to follow)
- Understand the current treatment recommendations and issues with drug resistance
- Identify strategies to prevent malaria in children in endemic areas

3-4:30 Laboratory Diagnosis
Edward Wong, MD, CNMC Faculty

- Understand use of thick and thin smear in diagnosing malaria
- Identify malaria parasites in blood smears

Wednesday, April 1

9:15-12:00 Pediatric HIV in Developing Countries
Leah Kern, MD
Julia Kim, MD

- Describe the epidemiology of HIV in children in developing countries
- Know the common clinical presentation and methods of diagnosis
- Know the general approach and barriers to treating children with HIV
- Describe HIV prevention strategies

1:00-2:30 Case Discussion
Jennifer Chapman, MD, CNMC Faculty

- Be able to assess children with diarrhea and dehydration
- Know the common pathogens as well as clinical presentation
- Know the most current guidelines and practice for managing diarrhea and dehydration in the developing world
- Understand how to evaluate, diagnose and manage patients in limited resource settings

2:30-4:00 Birth Spacing and Impact on Child Health
Justine Kavle, PhD, MPH, CPH, Georgetown University School of
Medicine, Dept OB/GYN and Institute of Reproductive Health

- Understand concept of healthy timing and spacing of pregnancies
- Recognize the impact of birth spacing on maternal and newborn survival
- Know the interval between pregnancies recommended to minimize risk of adverse outcomes

Thursday, April 2

8:00 – 9:00 Case Discussion
Melanie Anspacher, MD, CNMC Faculty

- Develop a differential diagnosis for children presenting with respiratory distress in developing countries
- Understand how to evaluate, diagnose and manage patients in limited resource settings
- Know the WHO guidelines for managing acute lower respiratory tract infections in children

9:00-10:30 Pediatric Tuberculosis: Diagnosis and Management in Developing Countries

Nathalie Quion, MD, MPH
Clarissa Dudley, MD

- Describe the epidemiology/burden of disease of TB in children in the developing world
- Know the common clinical presentations of TB in children
- Describe the diagnosis and treatment of TB in children in developing countries

10:30-12:00 Preparing for your International Elective

Neha Shah, MD, CNMC

- Identify and utilize the resources needed to prepare for an international rotation or work in a less developed country.

Friday, April 3

8:00 Post-test (for those not available in the afternoon)

8:30 – 10:00 Diarrhea Treatment and Prevention

Cecilia Kwak, MPH, Population Services International

- Know the most current guidelines and practice for managing diarrhea and dehydration in the developing world
- Understand the principles of oral rehydration therapy and other components of treatment
- Describe strategies and challenges to implementing these practices in a community setting

10:00-11:00 Case Discussion

Oluwakemi Badaki, MD, CNMC Faculty

- Recognize signs of severe acute malnutrition in children
- Know the principles of management of SAM

1:00-2:30 Newborn Survival

Steve Wall, MD, Save the Children

- Describe the epidemiology of newborn mortality in developing countries including causes and risk factors, and understand how this population differs from the under-5 population
- Understand the role of maternal health in newborn survival

- Identify strategies and programs to improve newborn survival

3:00 – 4:00 Post-test and Evaluation