

Module 4 – Infectious Diseases

Objectives: Discuss clinical tropical diseases recently encountered in the developing world; Diagnose and treat these diseases; and Implement field-based prevention and control measures for major communicable/infectious diseases.

- ❖ Acute Lower Respiratory Illness
- ❖ Acute Viral Hepatitis
- ❖ Botulism
- ❖ Case Studies
- ❖ Dengue and Zika Virus/Ebola
- ❖ Diarrhea and ORS
- ❖ Diphtheria, Pertussis, and Tetanus/Polio
- ❖ Extra Pulmonary TB
- ❖ Hansen's Disease
- ❖ Hematology in the Tropics
- ❖ Hepatitis Cases
- ❖ HIV Cases in Africa/Pediatric HIV
- ❖ HIV Global Overview
- ❖ HIV Presentation, Opportunistic Infections, and Management
- ❖ Immunologic Diagnosis
- ❖ Improving Patient Adherence
- ❖ Influenza
- ❖ Leptospirosis
- ❖ Lymphadenitis
- ❖ Malignancies in the Developing World
- ❖ Measles, Mumps, Rubella
- ❖ Meningococemia and Other Bacterial Sepsis
- ❖ Molecular Diagnosis and Case Presentations
- ❖ Nondengue Hemorrhagic Fever and Arboviral Illnesses
- ❖ Non-tuberculous Mycobacteria
- ❖ Practical Uses for Vaccines
- ❖ Rheumatic Fever and Other Strep
- ❖ Rickettsial Disease/Zoonoses
- ❖ Rotavirus and Other Viral GE
- ❖ Shigella and Amebiasis
- ❖ STI
- ❖ Syphilis and Other Treponematoses
- ❖ Systemic Mycoses, Opportunistic Fungi, and Antifungals
- ❖ TB and Peds Cases/TB in the Tropics
- ❖ Typhoid
- ❖ UTI

This course satisfies the didactic requirements for persons wishing to sit for the Certificate of Knowledge in Tropical Medicine and Traveler's Health examination offered every other year by the American Society of Tropical Medicine and Hygiene. Limited international field site opportunities are available to satisfy the requirement for two months of overseas tropical medical experience.

Social Justice Syllabus Statement:

West Virginia University is committed to social justice. We concur with that commitment and expect to foster a nurturing learning environment based upon open communication, mutual respect, and non-discrimination. Our university does not discriminate on the basis of race, sex, age, disability, veteran status, religion, sexual orientation, color or national origin. Any suggestions as to how to further such a positive and open environment in this class will be appreciated and given serious consideration.

If you are a person with a disability and anticipate needing any type of accommodation in order to participate in this class, please advise us, and we will make appropriate arrangements with Disability Services.

Disclosure Policy

In accordance with the Accreditation Council for Continuing Medical Education requirements, information on disclosure, speakers, agenda and commercial support will be available on our website and included in materials distributed at the beginning of or during the conference.

Important: If you are unable to attend the course after you have registered, you must notify us in writing six weeks prior to the beginning of the course to receive a refund. A \$75.00 fee will be charged for all cancelled registrations. We reserve the right to cancel individual sessions or the entire course. In the event of a course cancellation, a full tuition refund will be made.

For more information outlining the program curriculum, contact:

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CLINICAL TROPICAL MEDICINE AND TRAVELER'S HEALTH



SPONSORED BY THE

GLOBAL HEALTH PROGRAM
DEPARTMENT OF
MICROBIOLOGY
and the
WVU SCHOOL OF MEDICINE

The West Virginia University course, entitled “Clinical Tropical Medicine and Traveler’s Health” is one of nine U.S. courses accredited by the American Society of Tropical Medicine and Hygiene (ASTMH) as a prerequisite for the ASTMH Certificate of Knowledge exam. This course is offered each summer and is designed to provide training in clinical tropical medicine, travel medicine and related public health issues through a multidisciplinary approach to disease.

The course will be open to family medicine practitioners, general internists, internal medical subspecialists, pediatricians, emergency medicine physicians, obstetricians/gynecologists, anesthesiologists, pathologists, surgeons, dentists, nurses, public health professionals, physician assistants, MPH and medical students, and to anyone interested in making a career change.

In addition, Modules 1, 2 and 4 are now offered online only. **For more information, please contact Nancy Sanders at nsanders@hsc.wvu.edu.**

Lectures are recorded and saved electronically, and course participants will have unlimited access to annually updated lectures for the modules in which they have participated.

Accreditation:

The WVU School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. The WVU Office of CME designates Module 1 online at 75 AMA PRA Category 1 credit(s)TM; Module 2 online at 79.5 AMA PRA Category 1 credit(s)TM; Module 3 live at 77 AMA PRA Category 1 credit(s)TM; and, Module 4 online at 86.5 AMA PRA Category 1 credit(s)TM. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

This continuing education activity has been provided by the WVU School of Nursing for CEUs as follows: Module 1 online at 90; Module 2 online at 95.4; Module 3 live at 92.4; and, Module 4 online at 103.8. The WVU School of Nursing is an approved provider of continuing education by the State of West Virginia Board of Examiners for Registered Professional Nurses, Legislative Rule #19CSR11-4 under provider number WV-1996-0120RN.

Each participant should claim only those credits that he/she actually spent in the activity.

Course Modules Include:

Module 1 – Global Public Health

Objectives: Identify major global issues in tropical public health such as Women’s Health, Emerging Infectious Diseases, Vector Control, Water and Sanitation, and Famine and Refugees.

- ❖ Antimicrobial Resistance
- ❖ Communicable Diseases, EPI Curves, and Modes of Transmission
- ❖ Community and National Responses to Malnutrition
- ❖ Community Approaches to Primary Health Care
- ❖ Cultural Issues in Global Health
- ❖ Disabilities

- ❖ Disaster Medicine
- ❖ Displaced and Refugee Populations/Trafficking
- ❖ Emerging and Re-Emerging Infectious Diseases/Ebola and MERS
- ❖ Environmental Health
- ❖ EPI Vaccine and Preventable Diseases
- ❖ Epidemiology of Communicable Diseases and Epidemic Investigation
- ❖ Essential Drug List
- ❖ Geographic Distribution of Infectious Diseases
- ❖ Global Disease Eradication
- ❖ Global Health Ethics/Global Mental Health
- ❖ HIV Epidemiology and Control
- ❖ International Oral Health
- ❖ Intro to EPI and Measures of Morbidity and Mortality
- ❖ Key Micronutrient Deficiencies and Their Prevention
- ❖ Medical Management of Bioterrorism
- ❖ Neglected Tropical Diseases
- ❖ Non-Communicable Diseases: A Global Perspective
- ❖ Nutrition and Growth Monitoring/Protein Energy Malnutrition
- ❖ Occupational Health/Injuries
- ❖ Palliative Care in Developing Countries
- ❖ Role of International Organizations and Volunteer Organizations
- ❖ Role of Women in Health/Family Planning
- ❖ Rural Development
- ❖ Study Design, Clinical Trials, and Metanalysis/Surveillance Systems
- ❖ Vector Control
- ❖ Water and Sanitation

Module 2 – Clinical Practice in the Tropics and Travel Medicine

Objectives: Discuss clinical tropical diseases frequently encountered in the developing world; Diagnose and treat these diseases; Implement field-based prevention and control measures for major communicable/infectious diseases; and Manage travel related illnesses.

- ❖ Animal Bites and Rabies
- ❖ Aviation and Diving Medicine
- ❖ Bone and Joint Infections
- ❖ Burn Care in Developing Nations
- ❖ Cardiovascular Diseases in the Tropics
- ❖ Cross Cultural Medicine
- ❖ Culture Shock and Re-Entry Shock
- ❖ Dermatology for Dark Skinned Peoples
- ❖ Dermatology in the Tropics/Dermatology Cases
- ❖ Diarrhea and the Management of Acute Dehydration
- ❖ Enteric Fever
- ❖ GI Diseases in the Tropics
- ❖ Heat Associated Illness
- ❖ Hepatosplenomegaly
- ❖ High Altitude Sickness
- ❖ Hypothermia
- ❖ Ill-Returning Traveler/Eosinophilia
- ❖ Immigrant and Refugee Health
- ❖ Infective Endocarditis
- ❖ Neurologic Diseases in the Tropics/Seizure Management
- ❖ Pediatric Respiratory Illness/Pediatric Travel

- ❖ Poisonous Plants and Fish
- ❖ Prolonged Fever and FUO
- ❖ Radiology
- ❖ Respiratory Diseases in the Tropics
- ❖ Skin and Soft Tissue Infections
- ❖ Surgery in the Tropics
- ❖ Travel Medicine/Tropical Medicine Cases
- ❖ Urology in the Tropics
- ❖ Venomous Insects and Animals
- ❖ Viral Encephalitis

Module 3 – Medical Parasitology and Simulations

Objectives: Discuss clinical tropical diseases recently encountered in the developing world; Diagnose and treat these diseases; and Implement field-based prevention and control measures for major communicable/infectious diseases.

- ❖ Basic Laboratory Techniques/Microbiology Lab
- ❖ Blood and Tissue Protozoa
- ❖ Blood and Tissue Protozoa Lab
- ❖ Blood Smear Lab
- ❖ Case Studies I (Nematodes)
- ❖ Case Studies II (Protozoa)
- ❖ Case Studies III (Trematodes, Ecto)
- ❖ Case Studies IV (Cestodes)
- ❖ Cestodes and Larval Cestodes
- ❖ Cestodes Lab
- ❖ Clinical Cases in Entomology
- ❖ Clinical Parasitology by Organ System
- ❖ Control of Parasitic Infections
- ❖ Drugs for Parasitic Infections
- ❖ Filariasis and Tissue Nematodes
- ❖ Intestinal Nematodes
- ❖ Intestinal Protozoa Lab
- ❖ Intestinal Protozoa, Tissue Amoeba
- ❖ Malaria/Malaria Lab
- ❖ Nematode Lab
- ❖ Other Trematodes
- ❖ Schistosomiasis
- ❖ Stool O and P Lab (Nematode, Trematode, Cestode)
- ❖ Trematode Lab

❖ Simulations:

- ❖ Dentistry in the Tropics
- ❖ Neonatal Resuscitation
- ❖ OBGYN in the Tropics
- ❖ Peds Procedural Pearls
- ❖ Splints Lab/Suture Lab
- ❖ Travel Clinic
- ❖ Tropical Ophthalmology
- ❖ Ultrasound Lab