

## Neglected Tropical Diseases and Emerging Viral Infections: Health Challenges in Brazil in the 21st Century

DEPARTMENT OF INFECTIOUS DISEASES

### GENERAL DESCRIPTION

Neglected tropical diseases (NTD) constitute a diverse group of infectious diseases that affect mainly the poorest populations of the globe, whereas emerging infections are defined as those whose incidence in humans has increased in the past 2 decades or threaten to increase in the near future.

Brazil and other Latin American countries still present a significant burden of disease caused by NTD. In addition, these areas of the globe have recently been affected by outbreaks of emerging viral infections with remarkable public health impact. Knowledge about host-pathogen mechanisms and the recognition of social and environmental determinants of both NTD and emerging infections is crucial for the clinical management of individual cases and for the development and implementation of efficient prevention and control measures. In this intensive course students will be exposed to clinical and public health aspects of NTD that are epidemiologically relevant in Brazil, such as leprosy, Chagas' disease, leishmaniasis, schistosomiasis and soil-transmitted helminthic diseases.

In addition, malaria, tuberculosis and poisonous animal bites will be discussed. A special attention will be given to the recent COVID-19 pandemic in our country and to Brazilian outbreaks of emerging arboviral infections, including dengue, chikungunya, zika and yellow fever.

### COURSE OBJECTIVES

To enhance participants' skills in:

- understanding host-pathogen interactions in NTD, emerging viral infections and other important infectious diseases
- recognizing clinical features of these diseases
- understanding interventions that are recommended for their management, prevention and control

### TEACHING METHODS

Students will participate in interactive sessions that will cover from bench to bedside and from bedside to field perspectives of NTD and emerging viral infections, consisting of background lectures, clinical rounds in inpatient wards and visits to outpatient clinics and research laboratories. Assessment will be based on the evaluation of students' participation in course activities and on their performance in a test to be given at the end of the course.

**WHO SHOULD ATTEND?**

Medical students with some pre-clinical knowledge interested in NTD, emerging viral infections and/or global health determinants and challenges.

**Coordinator(s):**  
**Aluisio Cotrim Segurado, MD, PhD**

**Faculty:** Professors of the Department of Infectious Diseases and Senior Clinicians at Hospital das Clinicas - Division of Infectious Diseases

**Prerequisites:** Basic science knowledge

**Course material:** Mandell, Douglas and Bennett's Principles and Practice of Infectious Diseases, edited by John Bennett, Ralph Dolin, and Martin Blaser, 9th edition, Churchill-Livingston, 2019. Additional material will be provided in class.