

Yale SCHOOL OF PUBLIC HEALTH
Epidemiology of Microbial Diseases

EMD Seminar Series

Joseph M. Vinetz, M.D.

Professor of Medicine and Anthropology

**Section of Infectious Diseases, Department of Internal
Medicine**

Yale School of Medicine

**“The Basis of Malaria Transmission-Blocking Vaccines
and their Application to Regional Malaria Elimination
and Global Eradication”**

The epidemiological context of malaria in terms of prevalence of asymptomatic malaria parasitemia is a critical determinant of malaria transmission dynamics in endemic settings. This seminar will: 1) Introduce context of endemic malaria transmission in Amazonia; 2) Describe the natural history of malaria infection in a low transmission region in terms of subpatent parasitemia, relapse (*P. vivax*), modulation of mosquito infections by human antibody responses and understand the role of subpatent humans in infecting vector mosquitoes. Malaria transmission-blocking approaches will be discussed including a brief history of the discovery of transmission-blocking immunity and discussing new approaches to malaria transmission-blocking vaccine development.

12:00 PM Wednesday, April 21, 2021
Host: N. Grubaugh/R. Heimer/B. Weiss
Zoom