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Course: Malariology

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Course Description

Presents issues related to malaria as a major public health problem. Emphasizes the biology of malaria parasites and factors affecting their transmission to humans by anopheline vectors. Topics include host-parasite-vector relationships; diagnostics; parasite biology; vector biology; epidemiology; host immunity; risk factors associated with infection, human behavior, chemotherapy, and drug resistances; anti-vector measures; vaccine development; and management and policy issues.

Course Objectives

1. Understand the complex relationships between host and vector that affect transmission and control.
2. Integrate the host and parasite relationships to understand the immune response, nature of disease and disease manifestations.
3. Interpret epidemiological indices associated with patterns of malaria transmission.
4. Evaluate different approaches to malaria control, either through vector control, chemotherapy and vaccines when they become available.
5. Understand the differences between the various species of Plasmodium affecting humans.

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