Malaria: A medical perspective

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Infectious Disease specialist

• Evaluates patients with infections or suspected infections
• Travelers
  • Clinic Pre- and Post- travel
• Research

Mal’aria “Bad air”

Hippocrates

Alphonse Laveran

Anopheles mosquito

F. Ronald Ross at the Nobel Prize ceremony in 1910.
Life cycle malaria

Geographic distribution

- **P. falciparum**
  - Africa, Guinea, Haiti, S. America, S.E. Asia, Oceana
- **P. vivax** (Duffy binding protein)
  - Central America, India subcontinent, S. America, S.E. Asia
- **P. malariae**
  - most endemic areas
- **P. ovale**
  - rare outside of Africa

Malaria in the United States

Probable Locally Acquired Mosquito-Transmitted *Plasmodium vivax* Infection --- Suffolk County, New York, 1999

Case 1 - 11 year old boy with 5-day history of fever, rigors, abdominal pain, arthralgias and vomiting...intracellular parasites noted on complete blood count.

Case 2 - 11 year old boy with a 12 day history of vomiting, diarrhea, fever, chills, and fatigue...complete blood count showed malarial ring forms.

Both children attended the same summer camp.

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