



## Malaria

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# Malaria

**M**alaria is a potentially deadly disease caused by infection with the microscopic parasite *Plasmodium*. *Plasmodium* is transmitted to humans through bites from *Anopheles* mosquitoes infected with the parasite. According to the World Health Organization, malaria is present in more than 100 countries—mostly in sub-Saharan Africa and Southeast Asia. Each year there are roughly 300 million cases of malaria, and more than 1 million people die of the disease. Children and pregnant women are especially at risk of malaria. The May 23/30, 2007, issue of JAMA is a theme issue about malaria. This Patient Page is based on one previously published in the March 23/30, 2005, issue.

## SYMPTOMS

Symptoms usually appear about 9 to 14 days after being bitten by an infected mosquito.

- Sudden, violent chills
- Headaches
- Intermittent fever
- Seizures
- Sweating
- Delirium
- Exhaustion

## DIAGNOSIS AND TREATMENT

- Malaria is best diagnosed by using a microscope to identify the *Plasmodium* parasites in a blood sample.
- Malaria is treated with drugs that interfere with the parasite's life cycle or metabolism.
- If you think you have malaria, seek medical treatment immediately.

## PREVENTION

Prevention is based on avoiding exposure to mosquitoes and aggressively treating people who are infected. Malaria control programs in many parts of the world are underfunded and ineffective. If you are traveling to an area where malaria is common, take antimalarial drugs exactly as prescribed by your physician and prevent mosquito bites by

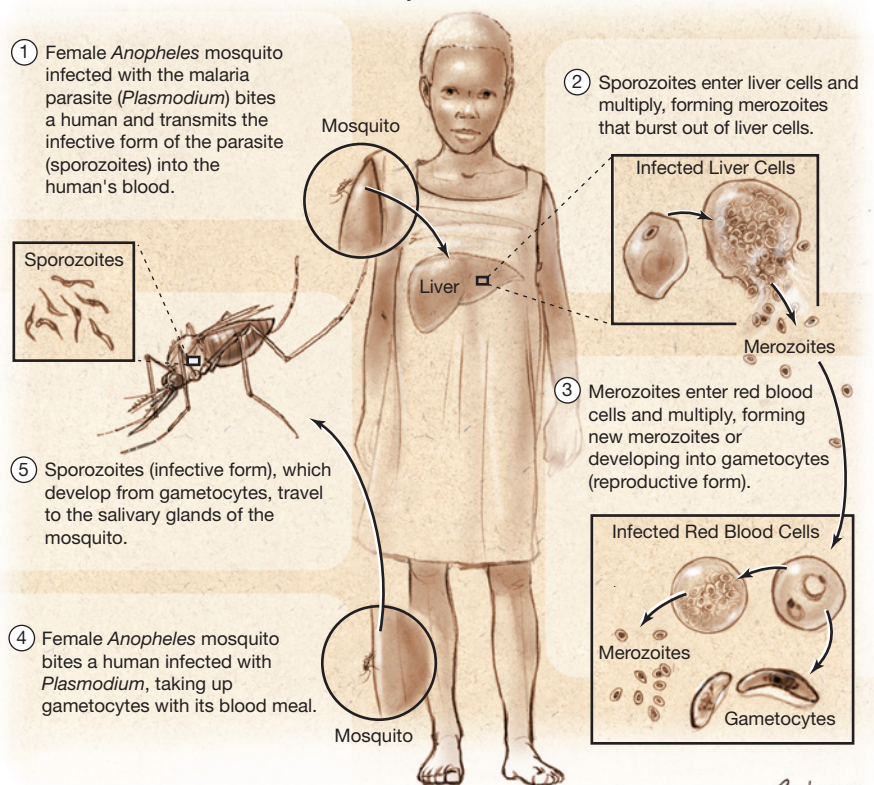
- Closing windows at night if possible
- Sleeping with a mosquito net, preferably one containing an insecticide, with the edges tucked under the mattress
- Covering up your body as much as possible with clothing
- Applying an insect repellent to areas of the body not covered by clothing.

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Life Cycle of *Plasmodium*



## FOR MORE INFORMATION

- Centers for Disease Control and Prevention  
[www.cdc.gov/malaria](http://www.cdc.gov/malaria)
- World Health Organization  
[www.who.int/en](http://www.who.int/en)

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Sources: Centers for Disease Control and Prevention, World Health Organization

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