

# 7 FACTS

## ABOUT MALARIA VIVAX

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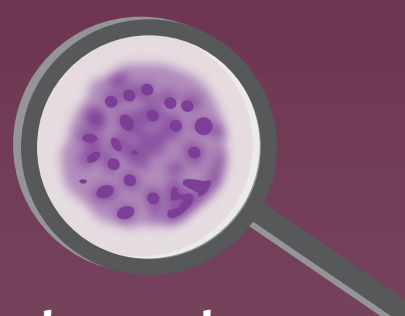
MALARIA CAUSED BY

### THE PARASITE *PLASMODIUM VIVAX*

HAS HISTORICALLY BEEN A NEGLECTED DISEASE.

THERE ARE 5 SPECIES OF PARASITES THAT CAUSE MALARIA IN HUMANS:

- PLASMODIUM FALCIPARUM
- **PLASMODIUM VIVAX**
- PLASMODIUM OVALE
- PLASMODIUM MALARIAE
- PLASMODIUM KNOWLESI



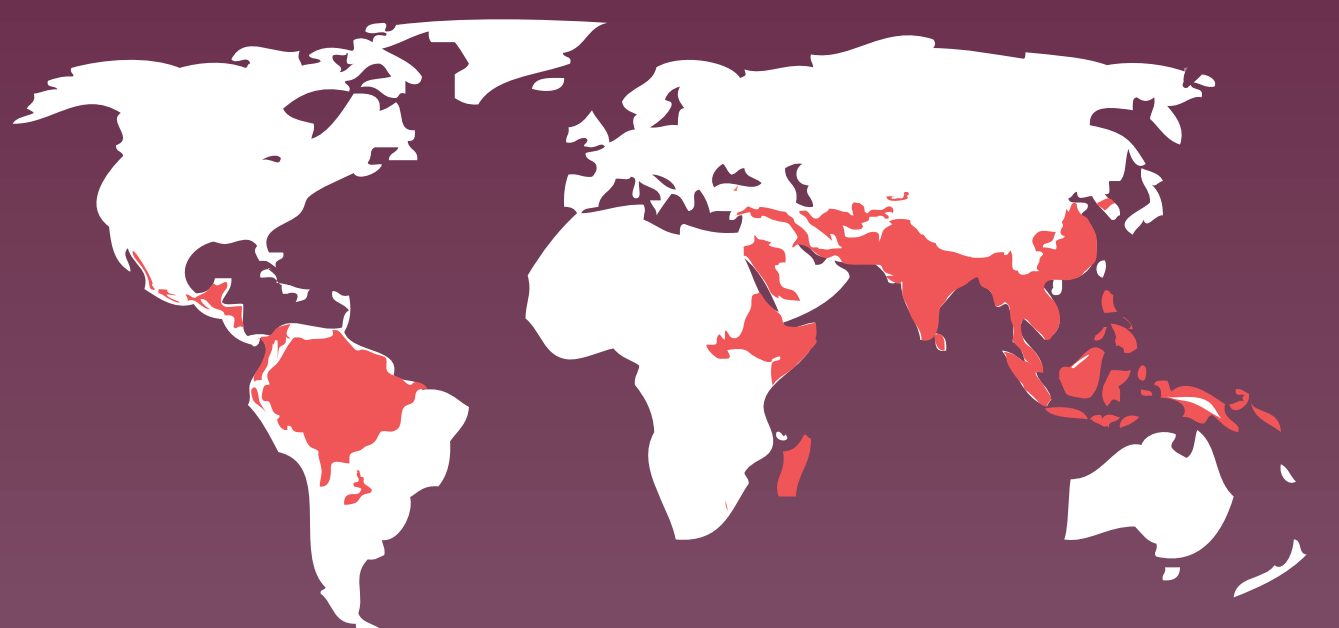
is the second most common cause of malaria in humans

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*P. VIVAX* MALARIA HAS THE WIDEST

### GEOGRAPHICAL DISTRIBUTION IN THE WORLD.

GLOBAL DISTRIBUTION OF MALARIA CAUSED BY *PLASMODIUM VIVAX* IN 2010



Source: Biological limits of the global distribution of *P. vivax* based on temperature, humidity, aridity, and contemporary reports of malaria risk. (Courtesy of Carlos Guerra, Malaria Atlas Project, Oxford University, United Kingdom.)

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CONTRARY TO WHAT WAS ONCE BELIEVED

### WE NOW KNOW THAT *P. VIVAX* ALSO CAUSES DEATH AND SEVERE DISEASE.

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*P. VIVAX*

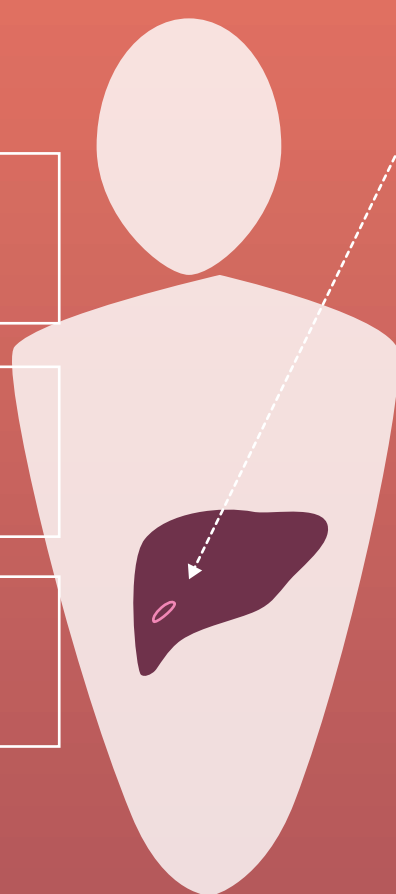
### CAN LIE DORMANT IN THE LIVER FOR WEEKS, MONTHS AND EVEN YEARS

THIS LATENT FORM OF THE PARASITE, CALLED THE HYPNOZOITE, CAN CAUSE RELAPSE EVEN A LONG TIME AFTER INFECTION

RESPONSIBLE FOR A LARGE PART OF THE DISEASE BURDEN OF *VIVAX* MALARIA

ONE OF THE MAIN GAPS IN KNOWLEDGE AND RESEARCH

A MAJOR OBSTACLE TO THE ERADICATION OF MALARIA

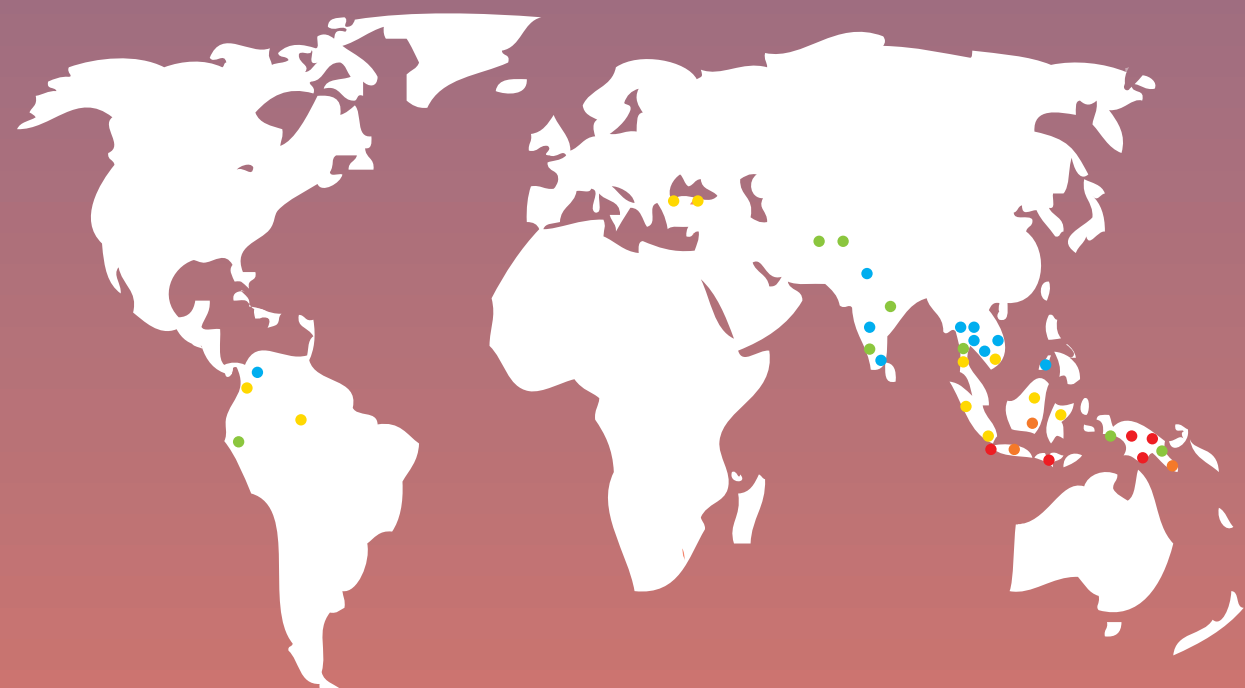


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*P. VIVAX*

### HAS DEVELOPED RESISTANCE TO CHLOROQUINE AND OTHER DRUGS.

CHLOROQUINE-RESISTANT *P. VIVAX*



● Fully susceptible ● >90% susceptible ● 90% - 50% susceptible ● <50% susceptible

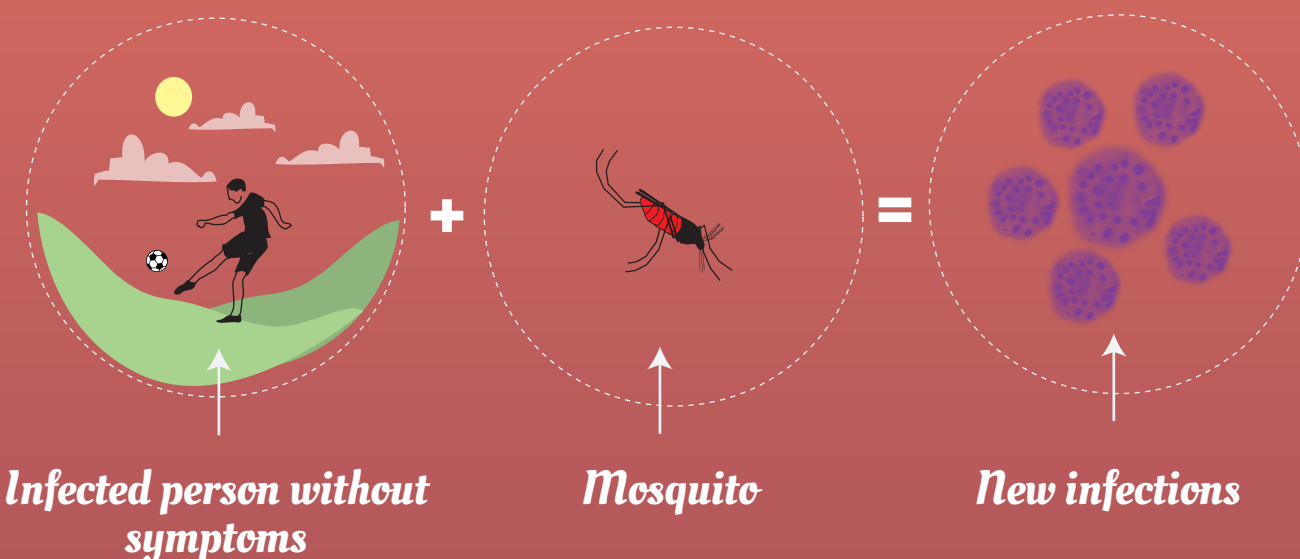
Source: Resistance to therapies for infection by *Plasmodium vivax*. Baird JK. Clin Microbiol Rev. 2009 Jul;22(3):508-34. doi: 10.1128/CMR.00008-09. Review.

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### BLOOD STAGE PARASITES THAT TRANSMIT *P. VIVAX* MALARIA DEVELOP BEFORE CLINICAL SYMPTOMS APPEAR.

THEREFORE THE DISEASE

### IS PROPAGATED BY APPARENTLY HEALTHY PEOPLE WHO ARE INFECTED.



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*P. VIVAX* MALARIA RESEARCH IS EXTREMELY DIFFICULT

### BECAUSE NO ONE HAS SUCCEEDED IN GROWING THE PARASITE IN THE LABORATORY.



*It will not be possible to eradicate malaria until the problem of *P. vivax* is properly addressed*