

7 FACTS

ABOUT MALARIA VIVAX

1

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 KNOWLESII



is the second most common cause of malaria in humans

2

P. VIVAX MALARIA HAS THE WIDEST

GEOGRAPHICAL DISTRIBUTION IN THE WORLD

GLOBAL DISTRIBUTION OF MALARIA CAUSED BY *PLASMODIUM VIVAX* IN 2019



Source: Institute for Health Metrics and Evaluation

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CONTRARY TO WHAT WAS ONCE BELIEVED

P. VIVAX ALSO CAUSES DEATH AND DISEASE SEVERITY

AND HAS DEVELOPED RESISTANCE TO CHLOROQUINE AND OTHER DRUGS



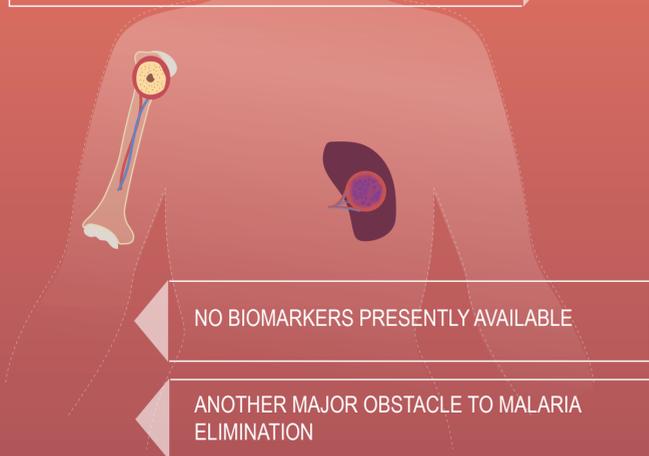
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P. VIVAX

EVOLVED CRYPTIC ERYTHROCYTIC NICHES IN THE SPLEEN AND BONE MARROW

THESE CRYPTIC NICHES ARE RESPONSIBLE FOR CHRONIC ASYMPTOMATIC INFECTIONS

THE SPLEEN HARBOURS MORE THAN 95% OF THE PARASITE BIOMASS DURING THESE INFECTIONS



NO BIOMARKERS PRESENTLY AVAILABLE

ANOTHER MAJOR OBSTACLE TO MALARIA ELIMINATION

4

P. VIVAX

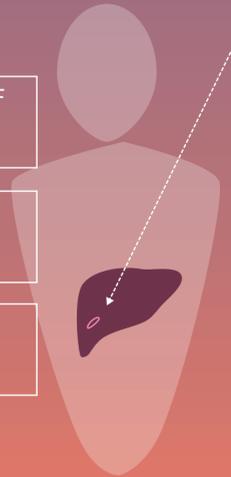
CAN LIE DORMANT IN THE LIVER FOR WEEKS, MONTHS AND EVEN YEARS

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

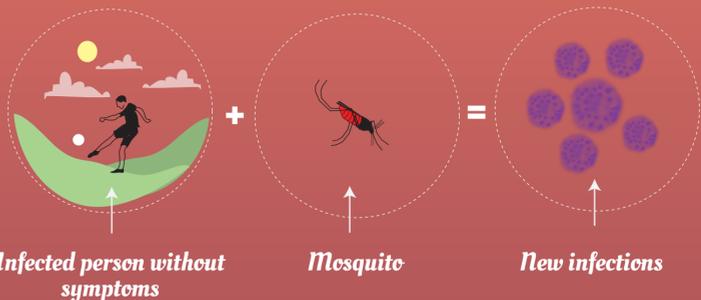


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BLOOD STAGE PARASITES THAT TRANSMIT *P. VIVAX* MALARIA DEVELOP BEFORE CLINICAL SYMPTOMS APPEAR

THEREFORE THE DISEASE

IS PROPAGATED BY APPARENTLY HEALTHY PEOPLE WHO ARE INFECTED



7

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*