

Distribution of Plasmodium falciparum and Plasmodium vivax with mosquitoes in Lao PDR.

Project leader:

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Funding of the project :

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Partners:

NCMPE

Description of the project and objectives:

To confirm the distribution of *Plasmodium falciparum* (Pf) and *Plasmodium vivax* (Pv) in Anopheline mosquitoes by an advanced routine PCR system in Lao PDR.

Results:

A total of 38 parasites were detected by the systems from 1515 sample of the mosquitoes collected from the Provinces of Phongsaly, Bokeo, Luang Prabang, Vientiane, Bolykhamxay, Saravane, Champasack, and Attapeu in June, 2012. These species were the known malaria vectors of *An. minimus* (26), *An. maculatus* (8), and *An. jeyporiensis* (3) and *An. philippinensis*(1). As for the parasites, 34 mosquito cases of *Plasmodium falciparum* and 5 cases of *P. vivax* infections were confirmed independently, however only one case of mixed infection was there in the sample. Domestic distribution of the *P.falciparum* malaria positive mosquitoes had the highest in a village of Saravane of the eight Provinces.



Publications: