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participants saw monkeys.

Men were four times more likely to have *P. knowlesi* infection than women, but although male farmers were more likely to contract monkey malaria, they were not at higher risk of contracting other types of malaria. Indoor work such as shopkeeping, traditional female household duties, and studying were associated with a lower risk of *P. knowlesi* malaria in these communities.

Chris Drakeley, Professor of Infection & Immunity from the London School of Hygiene & Tropical Medicine, and principal collaborator on the study said: "*P. knowlesi* is a complex and potentially life threatening parasite. The rise in cases not only threatens the great gains Malaysia has made towards eradicating malaria, but is of concern for other countries in South East Asia. Conventional approaches used to tackle malaria such as drugs or bed nets can't be used to combat *P. knowlesi* as monkeys are the host and risk is associated with outdoor work. Our study offers important insight into where social interventions are likely to have the biggest impact.

"This is a unique interdisciplinary study which harnessed the expertise of a range of partners and organizations to help describe the risk of *P. knowlesi* infection. We will continue to work with our colleagues in the Malaysian Ministry of Health to improve awareness and education for local residents about areas of risk and how they can prevent mosquito bites."

The findings suggest that humans working on the fringes of the forest are at risk of contracting *P. knowlesi*, as well as in the forest itself when they carry out activities such as hunting.

The study also identified methods of housing construction and surrounding forest and agricultural land types which contributed to the increasing number of rural *P. knowlesi* cases. A number of cases in women and children were also found which, along with the characteristics of mosquito and macaque populations, need further investigation.

Dr. Matthew Grigg, Menzies Research fellow and lead author of the study, said: "Malaysia's national malaria eradication plan is proving extremely effective in reducing case numbers of other types of malaria, however we have found cases of *P. knowlesi* are on the rise due to a number of human behavioral factors. Our research indicates adult males are most at risk of contracting this

type of malaria including from activities such as farming, land clearing activities, working on palm oil plantations, and traveling or sleeping outside."

The authors acknowledge the limitations of the study including that participants infected with *P. knowlesi* who were aware of their diagnosis were potentially more likely to recall seeing monkeys or describe childhood malaria episodes.

Source:

London School of Hygiene & Tropical Medicine
