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Malaria Epidemiology In Southeast Asia: Intra- and Inter-Country Dynamics

Parent Project Number	Sub-Project ID	Contact PI/Project Leader	Awardee Organization
5U19AI089672-12	5471	KYAW, MYAT PHONE	UNIVERSITY OF SOUTH FLORIDA

Description

Abstract Text

PROJECT 1 SUMMARY Despite the recent global reduction in malaria morbidity and mortality, malaria in the Greater Mekong Subregion (GMS) of Southeast Asia remains one of the most important public health problems. While nations in this region are moving towards malaria elimination, they face a daunting array of challenges, including continuous transmission of malaria along the international borders, introduction and spread of multidrug resistant malaria parasites by human migrants from neighboring countries, and the persistent Plasmodium vivax malaria. Accordingly, we strategically select study sites at the international borders of **China**, Thailand and Myanmar, which vary significantly in malaria endemicity, to address these problems. The overarching objective of this project is to gain critical epidemiological information about factors contributing to the persistence of border malaria in the GMS so that more effective malaria control strategies can be developed. In this project, we aim to (1) conduct malaria surveillance and use highly sensitive molecular diagnostic tools to identify transmission hotspots and risk factors for malaria infection; (2) determine and monitor the impact of control programs and parasite introduction in the border regions on changes in parasite population diversity in space and time using population genomic and landscape genetic tools; and 3) evaluate the effectiveness of the chloroquine-primaquine treatment regimen as a radical cure of vivax malaria in border areas with high prevalence of glucose-6-phosphate dehydrogenase deficiency. This project lays important foundations for other projects of the ICEMR program, and will provide critical knowledge for developing and evaluating integrated malaria management strategies.

Public Health Relevance Statement

Data not available.

NIH Spending Category

Clinical Research | Infectious Diseases | Malaria | Rare Diseases | Vector-Borne Diseases

Project Terms

Achievement | Address | Area | Artemisinins | China | Chloroquine | Country | Effectiveness | Epidemiology | Face | Falciparum Malaria | Foundations | Genetic | Genetic Variation | Genomics | Glucosephosphate Dehydrogenase Deficiency | Goals | High Prevalence | Human | Infection | International | Interruption | Intervention | Knowledge | Malaria | Measures | Methods | Migrant | Molecular | Monitor | Morbidity - disease rate | Multi-Drug Resistance | Myanmar | Nonmigrant | Parasites | Plasmodium vivax | Politics | Population | Population Heterogeneity | Prevalence | Primaquine | Public Health | Relapse | Research | Resistance | Risk Factors | Sentinel | Severities | Site | Social Behavior | Southeastern Asia | Technology | Testing | Thailand | Time

Read More

Details

Contact PI/ Project Leader

Name
KYAW, MYAT PHONE

Title

Contact

Other PIs

Not Applicable

Program Official

Name

Contact
Email not available

Thank you for your feedback!

Email not available

Organization

Name
UNIVERSITY OF SOUTH FLORIDA

City
TAMPA

Country
UNITED STATES (US)

Department Type
Unavailable

Organization Type
Domestic Higher Education

State Code
FL

Congressional District
14

Other Information

FOA
RFA-AI-15-056

Study Section
ZAI1-LG-M

Fiscal Year
2020

Award Notice Date
07-April-2020

Administering Institutes or Centers
NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

DUNS Number
069687242

CFDA Code

Project Start Date

Project End Date

Budget Start Date **01-April-2020**

Budget End Date **31-March-2021**

Project Funding Information for 2020

Total Funding
$700,614

Direct Costs
$639,833

Indirect Costs
$60,781

Year	Funding IC	FY Total Cost by IC
2020	NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES	$700,614

NIH Categorical Spending

Click here for more information on NIH Categorical Spending

Funding IC	FY Total Cost by IC	NIH Spending Category
NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES	$700,614	Clinical Research; Infectious Diseases; Malaria; Rare Diseases; Vector-Borne Diseases;

Sub Projects

No Sub Projects information available for 5U19AI089672-12 5471

Publications

No Publications available for 5U19AI089672-12 5471

Patents

No Patents information available for 5U19AI089672-12 5471

Outcomes

The Project Outcomes shown here are displayed verbatim as submitted by the Principal Investigator (PI) for this award. Any opinions, findings, and conclusions or recommendations expressed are those of the PI and do not necessarily reflect the views of the National Institutes of Health. NIH has not endorsed the content below.

No Outcomes available for 5U19AI089672-12 5471

Clinical Studies

Thank you for your feedback!

No Clinical Studies information available for 5U19AI089672-12 5471

News and More

Related News Releases

No news release information available for 5U19AI089672-12 5471

History

No Historical information available for 5U19AI089672-12 5471

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No Similar Projects information available for 5U19AI089672-12 5471

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