
Plan Overview

A Data Management Plan created using DMPonline

Title: BIO-002

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Project abstract:

Malaria in humans is caused by five species – Plasmodium falciparum, Plasmodium vivax, Plasmodium ovale, Plasmodium malariae and Plasmodium knowlesi. P. falciparum causes the most morbidity and mortality of the Plasmodium species, accounting for an estimated 241 million cases of malaria and 627,000 deaths worldwide in 2020. Almost half of the world's population are at risk of malaria, with sub-Saharan African populations at highest risk of acquiring malaria: approximately 95% of cases are estimated to occur in the World Health Organisation (WHO) African Region. Children under five years of age are the most severely affected, accounting for 77% of deaths from this infection (1). Since 2000 massive efforts have been made to increase distribution of commodities to prevent malaria across Africa, with a significant reduction in malaria deaths. It is estimated that 1.7 billion malaria cases and 10.6 million malaria deaths have been averted since 2000 with most of those averted, 82% of the cases and 95% of the deaths, in Africa.(1) However, challenges to the success of current strategies to combat malaria (such as insecticide-treated nets, indoor residual spraying, and antimalarial drugs) include: the development of resistance of Anopheles mosquitoes to certain insecticides; the development of resistance of malaria parasites to chemotherapeutic agents (2); the absence of a gametocidal drug suitable for mass administration (3); and the risk of re-importation of malaria into geographic regions previously cleared of malaria using environmental elimination measures. The Roll Back Malaria (RBM) Partnership was launched in 1998 by the WHO, the United Nations

Children's Fund (UNICEF), the United Nations Development Programme (UNDP) and the World Bank. A major goal of the RBM Partnership is to support the development of a vaccine against malaria as a key future strategy for reducing mortality from malaria. The development of an effective vaccine may indeed be necessary for the greater goal of global eradication of malaria (4).

The updated Malaria Vaccine Technology Roadmap calls for the development of a vaccine against *P. falciparum* and *P. vivax* by 2030, that will have protective efficacy of at least 75 percent against clinical malaria, suitable for administration to appropriate at-risk groups and development of vaccines to reduce malaria transmission suitable for administration in mass campaigns (5).

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Policy	URL or reference
Data Management Policy and Procedures	TUoS Research data management (RDM)
Data Security Policy	TUoS Data Security Policy
Data Sharing Policy	<i>e.g. a study policy of sharing research data</i>
Institutional Information Policy	
Institutional Ethics Policy:	Ethics Policy
Other	

8. Author and contact details

8. Author of this Data Management Plan (Name) and, if different to that of the Principal Investigator, their telephone & email contact details

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