

THE WALTER REED ARMY INSTITUTE OF RESEARCH

United States Army Medical Research Unit-Kenya USAMRU-K

USAMRU-K develops and tests improved means for predicting, detecting, preventing, and treating infectious disease threats important to the US Military as well as conduct surveillance, training, research and response activities which are related to emerging infectious diseases threats. Our team partners with US government agencies to execute the President's Emergency Plan for AIDS Relief (PEPFAR) and the President's Malaria Initiative (PMI).

Development of medical products for infectious diseases requires access to study populations in field sites where the disease agents are endemic as well as access to clinical trials centers capable of conducting high quality and regulated vaccine and

Major Accomplishments

- USAMRU-K is the only US Department of Defense infectious disease laboratory in sub-Saharan Africa
- Examined twelve anti-malarial drugs and provided surveillance on current and emerging anti-malarial drug resistance as an early warning system for the Soldier and community
- Improved malaria diagnostics capacity and quality at laboratories in Kenya and across Africa. Thirty-six microscopy courses were conducted training approximately 8,000 lab techs from 21 African countries. Continues to optimize rapid diagnostic, antigen detection, nucleic acid and automated microscopy diagnostic platforms for malaria. Established three additional malaria

WRAIR

Walter Reed Army
Institute of Research
Soldier Health • World Health



ARMY MEDICINE
Bringing Value...Inspiring Trust

THE WALTER REED ARMY INSTITUTE OF RESEARCH

United States Army Medical Research Unit-Kenya USAMRU-K

Major Accomplishments continued

- Conducted numerous FDA-compliant malaria vaccine trials. Malaria drug therapy clinical trials include in-patient trials for Ferroquine, Azithromycin/Choroquine vs conventional therapy, and Coartem evaluation
- Phase III, NIH-sponsored multi-center therapeutics study published in the New England Journal of Medicine will ultimately guide Prevention of Mother-to-Child Transmission (PMTCT) policy in sub-Saharan Africa; Phase I/II HIV vaccine study; Infectious Disease Clinical Research Program (IDCRP) international HIV study in collaboration with NIH; “High Risk Cohort Study” in MHRP Network; Clinic-based ART Diagnostic Evaluation study

Future Directions/Challenges

- Collaborative HIV vaccine study
- Malaria vaccine study in HIV+ children
- PEPFAR PMTCT Public Health Evaluation and University of California San Diego Center for AIDS Research collaborative studies

To learn more, visit us on the web: www.usamru-k.org

Phone: 410-322-5872

WRAIR

Walter Reed Army
Institute of Research

Soldier Health • World Health



ARMY MEDICINE
Bringing Value...Inspiring Trust