

One Health and Vector-Borne Diseases Webinar Series (Webinar #1)

One Health Research Consortium

*Project Title: Strengthening Surveillance of
Leishmaniasis in Uganda and Kenya through a
Collaborative Multisectoral One Health Capacity
Building Approach in Endemic foci.*



Consortia and institutions involved

Uganda

- Makerere University

Kenya

- University of Nairobi
- Kenya Medical Research Institute

First, middle and last name	Gender	Institution name	Expertise	Role in the project
Charles Drago Kato	M	Makerere University	Surveillance, Mapping and Modelling	PI and overall project coordinator
Tequiero Okumu	M	University of Nairobi	Epidemiology & Clinical studies	Support coordination and implementation of activities
Angella Musewa	F	African One Health University Network	Epidemiology & One Health	Lead curriculum development and training
James Robert Ochieng	M	Makerere University	Entomology & Conservation	Lead vector control and field activities
Jesus Muro Figueres	M	Daktari East Africa	Parasitology	Support field activities: Training and sample collection.
Edwinah Atusingwize	F	Makerere University	Environmental health & Public health	Lead environmental health and gender
Margaret Mbuchi	F	Kenya Medical Research Institute	Parasitology	Provide support on curriculum development and training
Ivan Ankunda	M	Ministry of Health-Uganda	Surveillance and Epidemiology	Coordinator active screening activities and data reporting

Introduction

- ❖ Leishmaniasis, caused by a unicellular protozoan *Leishmania* spp. parasites
- ❖ Transmitted by the bite of infected female phlebotomine sandflies
- ❖ Annually, an estimated 700,000 to 1 million new cases are reported (WHO, 2023).
- ❖ Uganda & Kenya still account for 15 % of the global cases
- ❖ Canine leishmaniasis is currently expanding across Africa
- ❖ Weak surveillance, reporting, low multisectoral engagement, & cross-border surveillance.

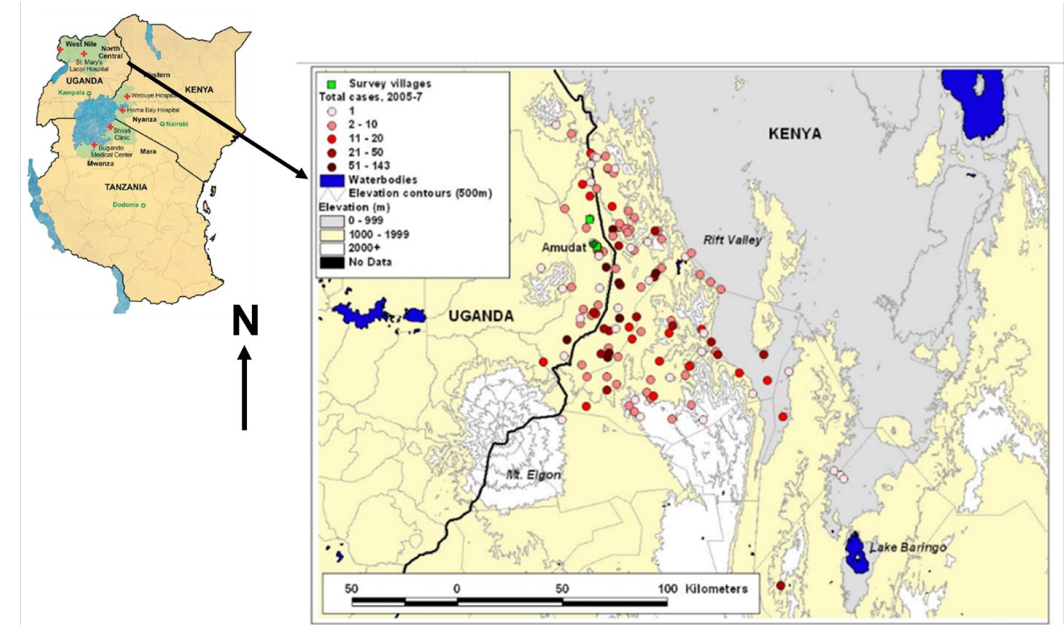


Figure 1: Mapping showing cross-border endemic foci in Uganda and Kenya recorded at Amudat hospital, Uganda, 2005-2007 (Malaria Consortium, 2010).

Objectives of the study

1

Build capacity of frontline workers in Uganda & Kenya to execute leishmaniasis surveillance & reporting through one health competencies.

2

Carry out a spatial & temporal mapping of leishmaniasis hotspots & decipher the risk factors associated with the disease within endemic foci.

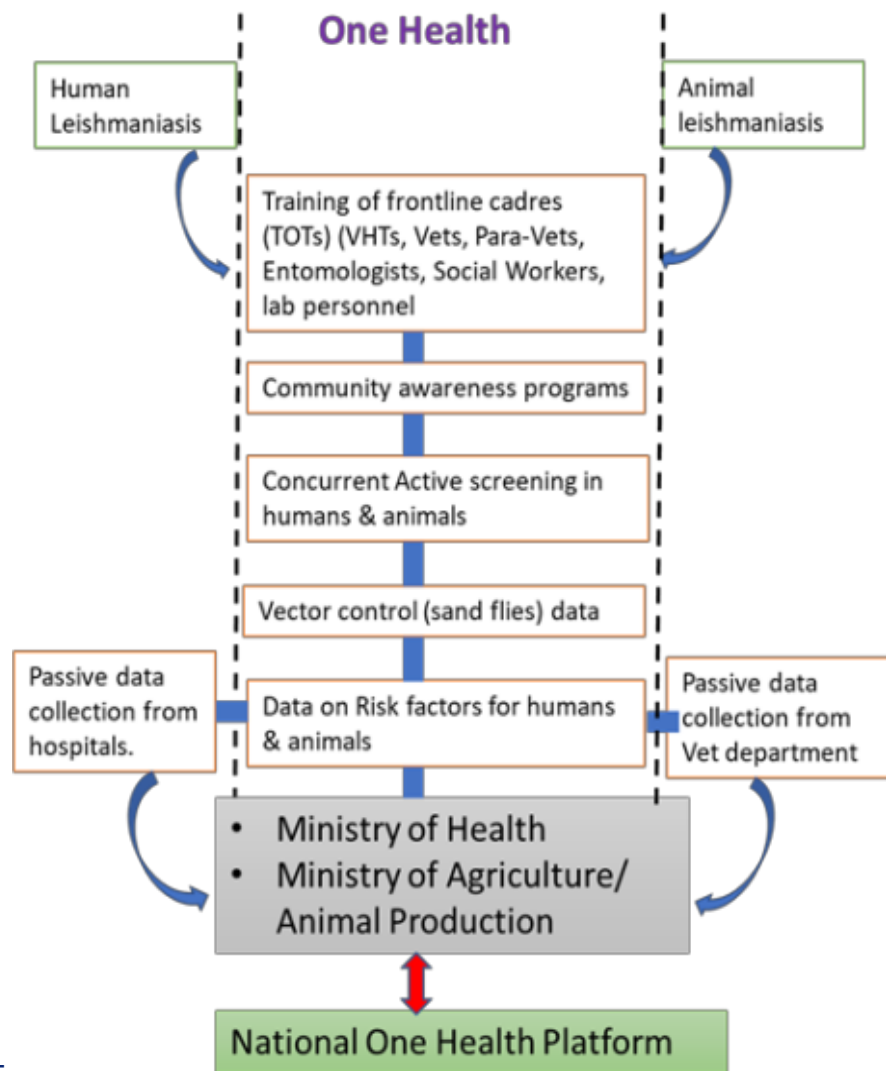
3

Strengthen surveillance & reporting of leishmaniasis data within line ministries and across the border.

4

Strengthen multisectoral & cross border surveillance for enhanced reporting & knowledge sharing.

Methodology



Deliverables list	Deadlines
Deliverable 1: Trained frontline workers at the subnational level	
<i>Milestone 1.1: Development/review of curriculum for short courses</i>	By: M2
<i>Milestone 1.2: Training of leishmania frontline workers in Uganda and Kenya</i>	By: M4
<i>Success indicator 1: At least 1 short course developed and 20 frontline workers trained (10 from each country)</i>	By: M4
Deliverable 2: Updated maps of Leishmania distribution and risk factors in Uganda and Kenya	
<i>Milestone 2.1: Retrospective passive data collection from hospitals and Veterinary records</i>	By: M6
<i>Milestone 2.2: Risk factor assessment and analysis</i>	By: M7
<i>Success indicator 2: At least one publication and one policy brief.</i>	By: M12
Deliverable 3: Surveillance data and reports	
<i>Milestone 3.1: Community awareness about leishmaniasis</i>	By: M7
<i>Milestone 3.2: Concurrent active screening in both humans and animals</i>	By: M10
<i>Milestone 3.3: Enhance integrated vector control approaches</i>	By: M11
<i>Success indicator 3: At least two Surveillance reports submitted to line ministries</i>	By: M12
Deliverable 4: Strengthened multisectoral and cross border collaboration	
<i>Milestone 4.1: Multisectoral meetings and Cross border meetings</i>	By: M11
<i>Milestone 4.2: Supervision and mentoring of trainees by project team</i>	By: M11
<i>Milestone 4.3: Dissemination of results</i>	By: M12
<i>Milestone 4.4: Monitoring, Evaluation and Learning (MEL)</i>	By: M12
<i>Success indicator 4: Multisectoral and cross border meeting and data sharing reports</i>	By: M12

Outcomes



1. Frontline workers are more efficient & knowledgeable about disease diagnosis, management, & control.
2. Reduction in the incidence of leishmaniasis
3. Strengthened surveillance & reporting of leishmaniasis
4. Increased cross-borderer collaboration between Uganda & Kenya towards disease control.

Limitation/ expected challenges in the project



- Insecurity within the study area. Project team will follow guidelines on travel & project execution within the region.
- Failure to locate or trace former patients due to migration, death, or unavailability. For disease risk factor assessment, consider next of kin.

Activity progress of the project

- We have started the process of preparing SOPs for fieldwork & laboratory analysis
- Protocol development & submission:
 - ✓ Submitted to the WHO/TDR team for review.
 - ✓ Prepared a protocol in line with Institutional Review Board (IRB) requirements & submitted to the Vector Control Division Research & Ethics Committee, Ministry of Health Uganda.
 - ✓ We have already received feedback from the IRB & we are working on the comments.
- The Project was launched on 17th of February, 2023 at Makerere University, Uganda.
- Curriculum development for the one health leishmania course.
 - ✓ Started the process of developing curriculum for the above course.

Thank you all for listening!

