



### MUCHAP SYNOPSIS 2022



#### INTRODUCTION

Iganga Mayuge Health and Demographic Surveillance Site (IMHDSS) is managed by Makerere University Center for Health and Population Research (MUCHAP). The goal of the research site is to provide longitudinal population-based social-economic and health data to monitor, track important health indicators and population changes that allows evidence-based decision-making for planning and policy development.

#### COMPLETED AND ON-GOING STUDIES

Figure 1 'EMERALD' quantitative study

**5,000** women of reproductive age who have had a pregnancy in the last 2 years.

**OBJECTIVE** It assessed the health care capacity for disabled women in the study area.

Started in September 2022-2023  
Data collection is projected in March 2023.

Figure 2 Minimally Invasive Tissue Sampling (MITS) study

**3 year** project aimed at collecting minimal body samples from the targeted 300 deceased under-five children

**Study Area** Selected community and health facilities within Iganga and Mayuge districts.

Sample collection starts in March 2023



A Researcher trains nurses on how to test for blood level (Figure 3)



Facility staff explaining the morbidity surveillance system (Figure 4)

#### Adolescent health study

**Findings** Determined the reproductive life-style of adolescents, substance use and nutrition practices.

**1,200 adolescent** Targeted boys and girls in the age group of 10-19 years,

**Study Area** 8 selected parishes of Iganga and Mayuge districts.

Figure 3

#### Electronic morbidity surveillance

This study involves monitoring morbidity patterns, trends and prevalence of disease in a selected population of Iganga district that is served by Busowobi Health Centre III.

The morbidity surveillance system networks laboratory, maternity and OPD data for patients that seek health care in this facility and who are residents of the HDSS surveillance population.

Figure 4

#### NIRA-MUCHAP death registration study

MUCHAP and National Identification Registration (NIRA) are in partnership to harmonize and improve death registration in a selected population under the surveillance area of IMHDSS.

A retrospective survey shall target collecting data on deaths that occurred in 2022. A prospective study shall also be conducted to generate adequate data with certified cause-of-death information.

Figure 5

#### Excess mortality study

The goal of this initiative is to characterize all-cause (and cause-specific) mortality rates and trends, by age and sex, across a range of rural and urban settings under continuous health and demographic surveillance in order to understand the excess mortality of the COVID-19 pandemic in key low and middle-income country (LMIC) settings.

Figure 6

#### Network of Care (NoC) study

This study addresses a network of care for persons with disabilities to be performed through physical rehabilitation in Iganga, Mayuge districts as part of the bigger study in other regions of the country. In order to fulfil the intended objectives, this study shall leverage on the existing health care systems in public and private facilities where physical rehabilitation services are offered.

Figure 7

## IDAIR- Citizen Science study

This is artificial intelligence research using citizen participatory approaches for pandemic preparedness and response. Global lack of accurate, real-time data on outbreaks and a collective science-based response framework calls for citizen science research and engagement. Data collection for this study is projected to start in March 2023.

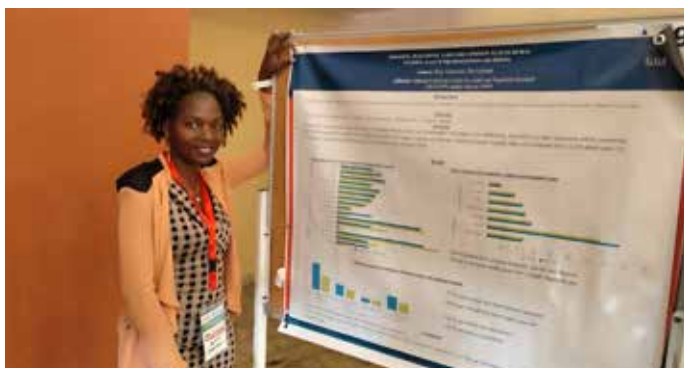
Figure 8



A VHT explains their roles to researchers

## SCIENTIFIC CONFERENCES AND ON-SITE ENGAGEMENTS

**Makerere University Joint Annual Scientific Health (JASH) Conference:** The Makerere University Joint Annual Scientific and Health Conference was held in September 2022 to showcase research outputs and to build research capacity through learning and presentation of findings. At the conference, MUCHAP was represented by the Data Manager, Data Management Assistant and IT Support Officer- who made oral and poster presentations on different research topics respectively.



Data Manager at the JASH Conference

**Excess mortality data-analysis workshop:** This workshop took place at Wits School of public health in Johannesburg, South Africa on 28th Nov. to 2nd Dec. 2022. It involved presenting data quality reports and training on data analysis methods. There was also a session on scientific writing, presentation and publication.

**Conference on Public Health In Africa (CPHIA):** The conference on public Health in Africa (Rwanda 13th- 15th December 2022) brought together many African researchers and scholars from different countries in Africa to showcase research outputs on public health challenges affecting



Data Assistant at the workshop on Excess mortality



Research Manager at the CPHIA

Africa including- emerging pandemics (COVID-19 and Ebola), non-communicable diseases, women in health, maternal and child health, infectious diseases among others.

## OTHER MUCHAP ENGAGEMENTS

MUCHAP is engaged in other activities including:- quarterly feedback meetings and training of community scouts; training of Research Assistants on how to fill specific study questionnaires and how to approach respondents for interviews; internal and external financial audits; continuous data cleaning and analysis for core surveillance data and data for nested studies.



MUCHAP staff undergoing training

MUCHAP participated in the national polio immunization assessment survey using Lot Quality Assurance Sampling method (LQAS). Field Surveyors were trained and deployed in various districts across the country to collect household-level data. This exercise was successfully completed in the month of November 2022.



LQAS training (November 2022)

In August 2022, MUCHAP was engaged in a research collaboration to establish a network of care for persons with disability. Health-care service points were mapped out in Iganga and Mayuge districts using community resource persons.

## A HIGHLIGHT ON FINANCES

MUCHAP has continued to collaborate with different funders and researchers to advance her research vision and mission. The detail below indicates the different studies and corresponding funding.

| PERIOD                 | 2021/2022    | 2022/2023       |
|------------------------|--------------|-----------------|
| Studies                | Grants       | Grants          |
| VXMedss                | 0            | 11,295 (EUR)    |
| InVaCSim               | 34,815(EUR)  | 0               |
| EMERALD                | 0            | 71,982,495(UGX) |
| ARISE Survey           | 8,437 (USD)  | 0               |
| Mortality surveillance | 20,245 (USD) | 0               |
| MITS                   | 90,000 (USD) | 0               |

## MUCHAP STATEMENT OF INCOME & EXPENDITURE

| PERIOD                         | 2021/2022          |
|--------------------------------|--------------------|
|                                | UGX.               |
| <b>INCOME</b>                  |                    |
| External grants received       | 239,376,698        |
| Overheads and other income     | 11,896,095         |
| Total Revenue ( A )            | 251,272,793        |
| <b>EXPENDITURE</b>             |                    |
| Employee costs                 | 107,199,662        |
| Field/Lab work                 | 334,359,302        |
| Research Equipment             | 0                  |
| Research Supporting Components | 53,777,700         |
| Maintenance of Equipment       | 2,589,000          |
| Research Consumables           | 2,386,800          |
| Indirect costs                 | 7,157,000          |
| Depreciation Charge            | 91,084,122         |
| Foreign Exchange Loss          | 0                  |
| Audit Fees                     | 2,820,000          |
| <b>TOTALS</b>                  | <b>601,373,586</b> |



Network of Care team visit to MUCHAP

MUCHAP established a laboratory with funding from Pfizer International. In September 2022, a strategic planning meeting was held with Makerere Bio-Medical Research Centre to assess the feasibility of supporting the completion of the laboratory. The laboratory will support the storage of samples for various bio-medical research studies utilizing the MUCHAP platform.



Makerere BRC staff visit MUCHAP

## GRANTS WON

To harness research sustainability and continuity, the MUCHAP team has engaged in grants writing. Some of the grants won for the year 2022 include: - Mortality surveillance project using Minimally Invasive Tissue Sampling (MITS); IDAIR- Citizen Science Research for Pandemic Preparedness and Response project; Excess Mortality project using longitudinal mortality data; EMERALD quantitative study project; Adolescent Health study project among others.

## CONTACT US



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