



Makerere University



CENTER FOR HEALTH AND POPULATION RESEARCH
Operating Population-based Surveillance Cohorts

MUCHAP UPDATES SYNOPSIS

FEBRUARY 2023



INTRODUCTION

MUCHAP is a research and research training platform owned by Makerere University. MUCHAP runs and manages the Population-based Cohort of Iganga Mayuge Health and Demographic Surveillance Site (IMHDSS). The goal of the research platform 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.



<https://pubmed.ncbi.nlm.nih.gov/?term=Iganga+Mayuge+&sort=date&size=100>

ON-GOING STUDIES AND PROJECTS

Minimally Invasive Tissue Sampling (MITS) study

This project aims to determine the cause of death using Minimally Invasive Tissue Sampling (MITS) procedure. Target Population is children under five years dying in a health facility and the community. The sample is 300

Study Area 


Selected hospitals within HDSS catchment area and the HDSS community.

PI is Dr. Dan Kajungu, Co-PIs – Dr Robert Lukande, Prof Grace Ndeezi, Mr Jackson Were. 

Funded by Research Triangle International & BMGF 

'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. 

Funded by Johns Hopkins School of Public Health 

- Study preparation started in September 2022
- Data collection is projected in March 2023.

PI Prof. Abdul Bachani 

Adolescent health study

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

Findings


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

Study Area  8 selected parishes of Iganga and Mayuge districts.

Funded by Harvard School of Public Health 

PI – Dr Justine Bukunya 

Data linkage system


This is a data linkage system for morbidity surveillance. It includes the HDSS population served by Busowobi Health Center III Iganga. The electronic health records system links the HDSS data with data collected at the health facility using a unique identifier. Data from OPD laboratory, ANC and maternity are captured from patients visiting this facility and are identified as members of the HDSS 


Funded by MUCHAP/IMHDSS PI-Dr. Dan Kajungu 

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.

 PI – Dr Dan Kajungu, Aloysius Ochola, NIRA, Prof. Chalapati Rao, Prof. Don de Savigny

 Potential Funding from CDC Foundation

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.

 PI – Prof Steve Tolman

Funded by Wit University South Africa 

RELAB-HS/USAID Network of Care (NoC) project

The RELAB-HS network of care for persons with disabilities identified from the HDSS community. The purpose is to strengthen the health system in relation to provision of rehabilitation services and care. It is part of the bigger project in other countries. The project shall leverage on the existing health care systems in public and private facilities where physical rehabilitation services are offered.

Funded by RELAB-HS/ USAID and John Hopkins SPH 

PI – Prof Abdul Bachani 

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.

 Funded by I-DAIR  PI-Dr. Dan Kajungu



RELAB_HS Network of Care team visit to MUCHAP



Facility staff explaining the morbidity surveillance system.

SCIENTIFIC CONFERENCES AND ON-SITE ENGAGEMENTS



The Vice Chancellor Makerere University and Principal Mak College of Health Sciences visiting one of MUCHAP posters

Makerere University Joint Annual Scientific Health (JASH) Conference:

MUCHAP had one oral presentation and three Poster presentations.

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) organised by Africa CDC:

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 Africa including- emerging pandemics (COVID-19 and Ebo



Research Manager at the CPHIA

OTHER MUCHAP ENGAGEMENTS



MUCHAP staff undergoing training

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 participated in the WHO/MoH 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 ser-

vice points were mapped out in Iganga and Mityasa districts using community resource persons.

MUCHAP plans to establish a community laboratory. The building was built with funding from Pfizer International. Makerere Biomedical Research Centre (MakBRC) visited the offices to assess the feasibility of supporting the completion of the laboratory. The laboratory will support preprocessing and storage of samples for various biomedical research studies utilizing the MUCHAP platform.



Makerere BRC staff visit MUCHAP

A HIGHLIGHT ON FINANCES

MUCHAP has continued to collaborate with different funders and researchers to advance her research vision and mission.

MUCHAP STATEMENT OF INCOME & EXPENDITURE

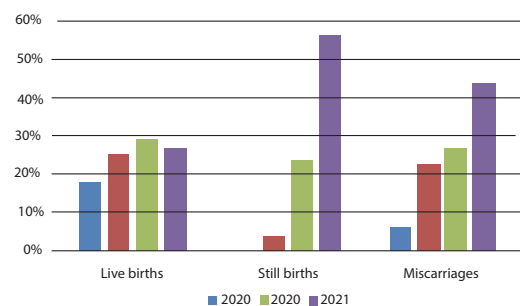
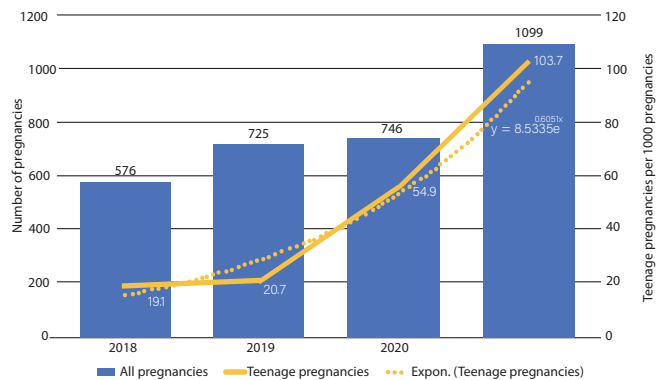
A SNAP SHOT OF OUTPUTS

PERIOD 2021/2022
UGX.

INCOME
 Opening Balance at start of year 728,741,394
 External grants received 239,376,698
 Overheads and other income 11,896,095
 Total Revenue (A) 980,014,187

EXPENDITURE
 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
TOTALS 601,373,586

Reproductive health outcomes during COVID-19 years in Rural Uganda

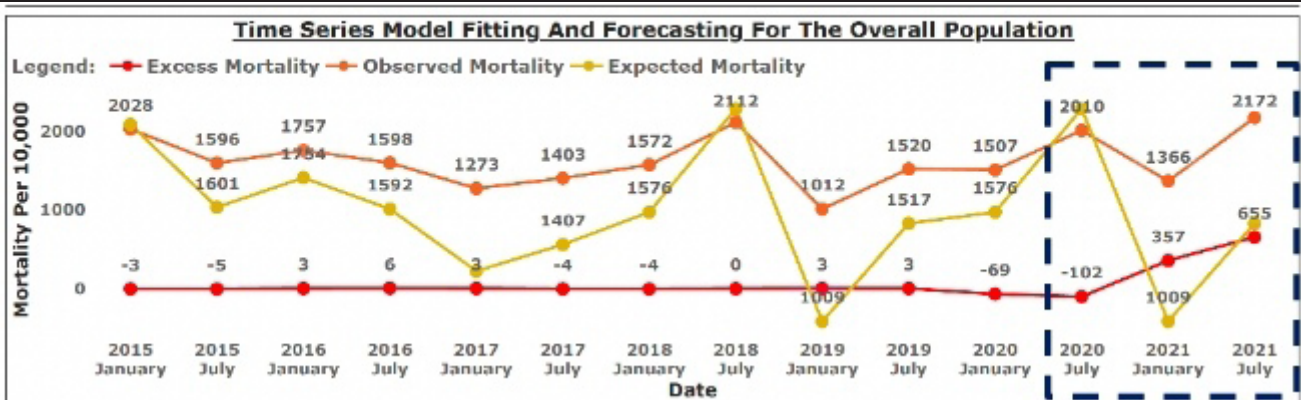


- Pregnancies**
- More pregnancies registered
 - Teenage pregnancies increased exponentially
- Pregnancy outcomes**
- No change in proportion of live birth
 - More stillbirths and miscarriages in 2020 and 2021

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Data source: Iganga Mayuge health and demographic surveillance site, Makerere University

Excess mortality during the pandemic



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