

# Uganda - Exposure Pathways Between Climate and Health 2022

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# Overview

## Identification

### ID NUMBER

LACUNA.2024.V1.0

## Overview

### ABSTRACT

Understanding climate change and the associated impacts on human health and wellbeing is one of the major intractable challenges facing planning departments, policy makers and health researchers in the coming decades. Novel approaches such as data science techniques which use routine and big data sources will be critical in supporting this area of enquiry to evaluate the effect of climate change in communities.

Through our Implementation Network for Sharing Population Information from Research Entities (INSPIRE), we have access to African population health data from 11 Health Demographic and Surveillance Sites (HDSS). These data contain demographic vital registration outcomes such as births, Death and mortality collected over 10 years in rural and urban African communities. As part of the INSPIRE data standardization and governance, all HDSS data are transformed into the INSPIRE OMOP Common Data Model (CDM) to allow systematic analyses using common terminologies, vocabularies and coding schemes.

We plan to secure daily ground and remote sensor climate data from the respective national meteorological offices. Climate data will cover the areas/countries in which the HDSS sites are located and transformed into the INSPIRE CDM and used to investigate the effect of climate change on mortality and morbidity outcomes. The linked and labelled datasets will be made FAIR using standard platforms

including schema.org and governed through the INSPIRE secretariat. Project findings and outputs will be shared with national and sub-national policy-makers and researchers to inform effective data-driven decision making on mitigating the effects of climate change on health outcomes in Africa.

### KIND OF DATA

Verbal autopsy

### UNITS OF ANALYSIS

Individual, household interviews and climate data

### TOPICS

Topic	Vocabulary	URI
Verbal autopsy	CIEL	<a href="https://openconceptlab.org/">https://openconceptlab.org/</a>
Cause of Death	MeSH	<a href="https://www.ncbi.nlm.nih.gov/">https://www.ncbi.nlm.nih.gov/</a>
ICD-10	MeSH	<a href="https://www.ncbi.nlm.nih.gov/">https://www.ncbi.nlm.nih.gov/</a>
Climate	MeSH	<a href="https://www.ncbi.nlm.nih.gov/">https://www.ncbi.nlm.nih.gov/</a>

## Coverage

### GEOGRAPHIC COVERAGE

The Iganga-Mayuge HDSS is located in the Iganga and Mayuge districts in Eastern Uganda. The demographic surveillance area consists of 65 villages spread over a 155 km square area with a population of 94,568 at the end of 2017. The average household size is five individuals, and the area is predominantly rural, with some peri-urban areas. Subsistence agriculture is the main occupation.

## UNIVERSE

This data file includes information on deaths that occurred among residents within the Health and Demographic Surveillance System (HDSS) study area from January 1, 2007, to December 31, 2022. Causes of death were classified using the Inter-VA classification algorithm

## Producers and Sponsors

## PRIMARY INVESTIGATOR(S)

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## OTHER PRODUCER(S)

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David Amadi	LSHTM	DDI author
Maureen Ngetich	APHRC	Technical Assistance
Flavian Otieno	APHRC	Technical Assistance
Agnes Karigga	APHRC	Technical Assistance

## FUNDING

Name	Abbreviation	Role
Lacuna Fund	LF	Current Funder

## OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role
Iganga Mayuge Data Team	IMHDSS	Providing Data
INSPIRE-Network	INSPIRE	Providing IT Infrastructure for Data Processing

## Metadata Production

## METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
David Amadi	DA	LSHTM	DDI author
Dan Kajungu	DK	IMHDSS	Technical assistance in data collection and processing
Agnes Kiragga	AN	APHRC	Documentation of Study and Review of the metadata
Maureen Ng'etich	MN	APHRC	Documentation of Study and Review of the metadata
Flavian Otieno	FO	APHRC	Documentation of Study and Review of the metadata

## DDI DOCUMENT ID

DDI.INSPIRE.LACUNA.2022.V1.0

## Sampling

### **Sampling Procedure**

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All residents mortalities in the IMHDSS are included in the dataset

## Questionnaires

No content available

## Data Collection

### Data Collection Dates

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<b>Start</b>	<b>End</b>	<b>Cycle</b>
2007-01-01	2022-12-31	IMHDSS

### Data Collection Mode

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Verbal autopsy procedures (Interviewing surviving relatives or caregivers of the deceased to gather information about the circumstances surrounding the death)

## Data Processing

No content available

## Data Appraisal

No content available