Plan Overview

A Data Management Plan created using DMPonline.be

Title: Improving Adolescent Sexual and Reproductive Health in Uganda: Assessing Challenges and Opportunities in Development and Implementation of Policies on Adolescent Pregnancies

Creator: Susan ASIIMWE

Principal Investigator: Kristien Michielsen, Susan ASIIMWE

Data Manager: Susan ASIIMWE

Affiliation: KU Leuven (KUL)

Template: KU Leuven BOF-IOF

Principal Investigator: Kristien Michielsen, Susan ASIIMWE

Data Manager: Susan ASIIMWE

Project abstract:

Improving Adolescent Sexual and Reproductive Health in Uganda: Assessing Challenges and Opportunities in Development and Implementation of Policies on Adolescent Pregnancies.

This PhD research investigates the gap between policy and practice in Uganda's adolescent reproductive health (ARH). Despite numerous policies aimed at improving ARH, Uganda continues to experience high rates of adolescent pregnancies and unsafe abortions. This study focuses on Uganda and more specifically on South-Western Uganda. It employs a multi-method approach to achieve the following objectives:

- To assess the potential impact of the current reproductive health policies targeted at addressing adolescent pregnancies in East Africa
- To determine the trends in prevalence and associated factors of adolescent pregnancies in Uganda using 15 years of Uganda Demographic Health Survey (UDHS)
- To study the barriers, facilitators, and coping mechanisms for the development and implementation of selected ARH policies in Uganda, this will be done through interviews with policymakers, and healthcare providers and observation at health facilities and communities
- To co-create feasible recommendations to improve ARH policies content and implementation. This shall be done through participatory action research with adolescents and dialogue meetings with stakeholders.

The findings will contribute to evidence-based policy development and implementation. Ultimately aiming to improve the reproductive health of adolescents in Uganda.

This PhD is funded by BOF through the Scholarship from the South program, under grant number ZB/24/033.

ID: 210403

Start date: 01-10-2024

End date: 30-09-2028

Last modified: 11-01-2025

Improving Adolescent Sexual and Reproductive Health in Uganda: Assessing Challenges and Opportunities in Development and Implementation of Policies on Adolescent Pregnancies

Research Data Summary

List and describe all datasets or research materials that you plan to generate/collect or reuse during your research project. For each dataset or data type (observational, experimental etc.), provide a short name & description (sufficient for yourself to know what data it is about), indicate whether the data are newly generated/collected or reused, digital or physical, also indicate the type of the data (the kind of content), its technical format (file extension), and an estimate of the upper limit of the volume of the data.

Dataset name / ID	Description	New or reuse	Digital or Physical data	Data Type	File format	Data volume	Physical volume
		*Indicate: **N**(ew data) or **E**(xisting data)*	Indicate: **D**(igital) or **P**(hysical)	Indicate: **A**udiovisual **I**mages **S**ound **N**umerical **T**extual **M**odel **SO**ftware Other (specify)		Indicate: <1GB <100GB <1TB <5TB >5TB NA	
Study 1	The current sexual and reproductive health policies for Kenya. Uganda and Rwanda	E	D	T/N	PDF/DOCX	Files of Policy documents <1GB	-
Study 2	The Uganda Demographic and Health Survey (UDHS) data for the past 15 years.	E	D	N	PDF	5 UDHS reports <2 GB	-
Study 3	Key informant interviews	N	D	S	MP3	Notes of 20 interviews < 200GB	-
	Observations a health facilities and communities	N	P	T	On paper	N/A	Written on the standard checklist for 8 facilities
	Exit interviews with the adolescents	N	D	S	MP3	40 short interviews with adolescents 400GB	-
	Personal and field notes on interviews and observations	N	P	T	On paper	N/A	Written in the notebook
	Transcripts	N	D	T	DOCX	2-3GB	-
Study 4	Focused group discussions with adolescents	N	D	S	MP3	<1 TB	-
	Dialogue meeting	N	D	S	MP3	5 GB	-
	Personal and field notes from discussions and meetings	N	P	T	On paper	N/A	Written in the notebook
	Transcripts	N	D	T	DOCX	3-4 GB	-

If you reuse existing data, please specify the source, preferably by using a persistent identifier (e.g. DOI, Handle, URL etc.) per dataset or data type:

We will use Data from Ugandan Demographic Health Survey. The link to the datasets will be shared after getting permission to use data from demographichealthsurvey.com

Are there any ethical issues concerning the creation and/or use of the data (e.g. experiments on humans or animals, dual use)? If so, refer to specific datasets or data types when appropriate and provide the relevant ethical approval number.

- Yes, human subject data (Provide SMEC or EC approval number below)

We will apply for ethical approval with SMEC and the Kabale Institutional Review Board. We will share the ethical approval number after seeking ethical approvals

Will you process personal data? If so, please refer to specific datasets or data types when appropriate and provide the KU Leuven or UZ Leuven privacy register number (G or S number).

- Yes (Provide PRET G-number or EC S-number below)

Yes, Personal data like emails, and phone numbers will be included in the data. PET G- or EC S-Number will be provided after getting approvals

Does your work have potential for commercial valorization (e.g. tech transfer, for example spin-offs, commercial exploitation, …)? If so, please comment per dataset or data type where appropriate.

- No

Do existing 3rd party agreements restrict exploitation or dissemination of the data you (re)use (e.g. Material or Data transfer agreements, Research collaboration agreements)? If so, please explain in the comment section to what data they relate and what restrictions are in place.

- No

Are there any other legal issues, such as intellectual property rights and ownership, to be managed related to the data you (re)use? If so, please explain in the comment section to what data they relate and which restrictions will be asserted.

- No

Documentation and Metadata

Clearly describe what approach will be followed to capture the accompanying information necessary to keep data understandable and usable, for yourself and others, now and in the future (e.g. in terms of documentation levels and types required, procedures used, Electronic Lab Notebooks, README.txt files, codebook.tsv etc. where this information is recorded).

· For textual data, we will prepare a README.txt file to outline the structure, meaning, and relationships of data variables. This metadata will include file names and descriptions, definitions of text variables or labels, and details of any preprocessing steps. For sound data, we will create a metadata file (e.g., sound, data, metadata.tsv) to specify file formats and encoding (e.g., .mp3), the context of recordings (e.g., location, date, purpose), and annotations such as transcriptions, speaker details, or other relevant features.

· We will implement clear and consistent folder and file naming conventions, incorporating date formats (e.g., YYYY-MM-DD) and descriptive labels (e.g., interview_transcript_01.txt or audio_sample_20240101.wav).

· To ensure long-term accessibility, we will use open file formats, such as .txt for text and .wav for audio. All tools, scripts, and

software used for data processing will be documented in a README file, including installation instructions and dependencies.

· Data will be securely stored in the KU Leuven repository with appropriate access controls. Automatic Daily backups will be implemented using secure systems, such as cloud storage, share point, or one drive KU Leuven. The documentation will be reviewed and updated regularly to capture any changes or additions to the dataset or workflows.

Will a metadata standard be used to make it easier to find and reuse the data?
If so, please specify which metadata standard will be used.

If not, please specify which metadata will be created to make the data easier to find and reuse.

- Yes

DataCite will be use as we plan to share research data via KU Leuven Research Data Repository.

Data Storage & Back-up during the Research Project

Where will the data be stored?

- Shared network drive (J-drive)
- Personal network drive (I-drive)
- OneDrive (KU Leuven)
- Sharepoint online

How will the data be backed up?

- Standard back-up provided by KU Leuven ICTS for my storage solution

Is there currently sufficient storage & backup capacity during the project?

If no or insufficient storage or backup capacities are available, explain how this will be taken care of.

- Yes

The data will be stored on the University's central servers with automatic back-up procedures.

How will you ensure that the data are securely stored and not accessed or modified by unauthorized persons?

· All study data will be stored on the OneDrive cloud service provided by the Faculty of Medicine. This storage solution is robust and secure, featuring automatic backups to prevent data loss. It also includes advanced protections such as multi-factor authentication and conditional access controls, ensuring that only the researcher has access to the data before anonymization.

· After data collection, the doctoral researcher will pseudonymize the dataset. Participant names will be replaced with unique, randomly generated codes, and other potentially identifying information (e.g., place names) will be substituted with neutral or non-identifiable terms.

· All audio recordings will be permanently deleted once the data analysis is completed, ensuring that no sensitive information remains accessible.

What are the expected costs for data storage and backup during the research project? How will these costs be covered?

None

Data Preservation after the end of the Research Project

Which data will be retained for 10 years (or longer, in agreement with other retention policies that are applicable) after the end of the project?

In case some data cannot be preserved, clearly state the reasons for this (e.g. legal or contractual restrictions, storage/budget issues, institutional policies...).

- All data will be preserved for 10 years according to KU Leuven RDM policy
- Certain data cannot be kept for 10 years (explain below)

Once the audio data has been analyzed, it will be permanently deleted. Only pseudonymized data, separated from the codes linking it to personal information, will be stored on the shared network drive (J-drive) of the research unit.

Where will these data be archived (stored and curated for the long-term)?

- KU Leuven RDR
- Shared network drive (J-drive)

What are the expected costs for data preservation during the expected retention period? How will these costs be covered?

None

Data Sharing and Reuse

Will the data (or part of the data) be made available for reuse after/during the project?
Please explain per dataset or data type which data will be made available.

- Yes, as restricted data (upon approval, or institutional access only)
- Yes, as embargoed data (temporary restriction)
- No (closed access)

Full transcripts including personal information, codes and fieldnotes cannot be shared due to privacy issues.
Pseudonymised transcripts might be made available by motivated request.

If access is restricted, please specify who will be able to access the data and under what conditions.

Access will depend on what the participant decide in informed consent forms,
Data can also be availed upon a request by email.
Data availability will be stated in the preregistration of each study. If access is allowed, pseudonymised data will be shared using a secured email.

Are there any factors that restrict or prevent the sharing of (some of) the data (e.g. as defined in an agreement with a 3rd party, legal restrictions)?

Please explain per dataset or data type where appropriate.

- Yes, privacy aspects
- Yes, ethical aspects

Where will the data be made available?

If already known, please provide a repository per dataset or data type.

- KU Leuven RDR (Research Data Repository)

When will the data be made available?

- Upon publication of research results

Which data usage licenses are you going to provide?

If none, please explain why.

- Data Transfer Agreement (restricted data)

Do you intend to add a persistent identifier (PID) to your dataset(s), e.g. a DOI or accession number? If already available, please provide it here.

- Yes, a PID will be added upon deposit in a data repository

What are the expected costs for data sharing? How will these costs be covered?

None

Responsibilities

Who will manage data documentation and metadata during the research project?

The PhD student Susan Asiimwe and Promoter Prof. dr. Kristien Michielsen.

Who will manage data storage and backup during the research project?

The PhD student Susan Asiimwe and Promoter Prof. Dr. Kristien Michielsen.

Who will manage data preservation and sharing?

The PhD student Susan Asiimwe and Promoter Prof. Dr. Kristien Michielsen during the PhD project. After the PhD project, thiswill be done by Prof. Michielsen.

Who will update and implement this DMP?

The PhD student Susan Asiimwe.