

**South Africa**

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**m-Africa: Building mobile phone-connected diagnostics and  
online care pathways for optimal delivery of population  
HIV testing, prevention and care in decentralised settings**

**Study Documentation**

June 18, 2019

# Metadata Production

<b>Metadata Producer(s)</b>	Africa Health Research Institute (AHRI)
<b>Identification</b>	DDI.AHRI.m-Africa.2019.v1

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## m-Africa:Building mobile phone-connected diagnostics and online care pathways for optimal delivery of population HIV testing, prevention and care in decentralised settings

<b>Overview</b>	
<b>Identification</b>	AHRI.m-Africa.2019.v1
<b>Version</b>	V1.0.0
<b>Abstract</b> In this study we are using mixed methods studies to evaluate the feasibility and acceptability of implementing mobile-phone connected HIV diagnostic tests and online clinical care pathways within current healthcare system in KwaZulu-Natal, South Africa. In parallel we are developing and piloting new mobile phone connected diagnostic tests for use in community settings. These tests use an application linked to a mobile camera to interpret the results. The performance of the tests will be benchmarked to gold-standard diagnostic tests (Enzyme Linked ImmunoSorbent Assays (ELISA) and Polymerase Chain Reaction (PCR)) using patient samples (n=100).	
<b>Kind of Data</b>	Images of POC HIV tests to train and evaluate a smartphone application to automate interpretation of commercial HIV tests and biobarcode tests
<b>Unit of Analysis</b>	Photographs of individual test strip responses.

<b>Scope &amp; Coverage</b>	
<b>Keywords</b>	HIV rapid test, Point-of-care test, Lateral Flow test
<b>Topics</b>	HIV-1; Incidence; Phylogeny; Epidemics; Population Surveillance; Rural Population; HIV Infections; Africa
<b>Time Period(s)</b>	2017-2019
<b>Countries</b>	South Africa
<b>Geographic Coverage</b> Demographic surveillance area of the Africa Health Research Institute; KwaZulu-Natal, uMkhanyakude district.	
<b>Universe</b> Population Intervention Program	

<b>Producers &amp; Sponsors</b>	
<b>Primary Investigator(s)</b>	Herbst, Kobus, Africa Health Research Institute McKendry, Rachel, University College London Turbe, Valerian, University College London
<b>Other Producer(s)</b>	Africa Health Research Institute (AHRI)
<b>Funding Agency/ies</b>	Medical Research Council (UK) (MRC)
<b>Other Acknowledgment(s)</b>	Gareta, Dickman , Africa Health Research Institute Turbe, Valerian , University College London Dube, Sweetness , Africa Health Research Insitute

<b>Sampling</b>
<b>Sampling Procedure</b>

Survey data collection will be integrated into the routine AHRI population data collection platform, and will not require additional household visits. Qualitative data will be collected by an experienced qualitative research support team.

## Data Collection

<b>Data Collection Dates</b>	start 2017-08-01 end 2019-06-18
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## Data Processing & Appraisal

### Data Editing

The raw images have been stripped of the GPS coordinates attached in the metadata, and renamed to pseudo-anonymise the dataset.

## Accessibility

### Access Conditions

The representative of the Receiving Organization agrees to comply with the following conditions:

1. Access to the restricted data will be limited to the Lead Researcher and other members of the research team listed in this request.
2. Copies of the restricted data or any data created on the basis of the original data will not be copied or made available to anyone other than those mentioned in this Data Access Agreement, unless formally authorized by the Data Archive.
3. The data will only be processed for the stated statistical and research purpose. They will be used solely for reporting of aggregated information, and not for investigation of specific individuals or organizations. Data will not in any way be used for any administrative, proprietary or law enforcement purposes.
4. The Lead Researcher must state if it is their intention to match the restricted microdata with any other micro-dataset. If any matching is to take place, details must be provided of the datasets to be matched and of the reasons for the matching. Any datasets created as a result of matching will be considered to be restricted and must comply with the terms of this Data Access Agreement.
5. The Lead Researcher undertakes that no attempt will be made to identify any individual person, family, business, enterprise or organization. If such a unique disclosure is made inadvertently, no use will be made of the identity of any person or establishment discovered and full details will be reported to the Data Archive. The identification will not be revealed to any other person not included in the Data Access Agreement.
6. The Lead Researcher will implement security measures to prevent unauthorized access to licensed microdata acquired from the Data Archive. The microdata must be destroyed upon the completion of this research, unless the Data Archive obtains satisfactory guarantee that the data can be secured and provides written authorization to the Receiving Organization to retain them. Destruction of the microdata will be confirmed in writing by the Lead Researcher to the Data Archive.
7. Any books, articles, conference papers, theses, dissertations, reports, or other publications that employ data obtained from the Data Archive will cite the source of data in accordance with the citation requirement provided with the dataset.
8. An electronic copy of all reports and publications based on the requested data will be sent to the Data Archive.
9. The original collector of the data, the Data Archive, and the relevant funding agencies bear no responsibility for use of the data or for interpretations or inferences based upon such uses.
10. This agreement will come into force on the date that approval is given for access to the restricted dataset and remain in force until the completion date of the project or an earlier date if the project is completed ahead of time.
11. If there are any changes to the project specification, security arrangements, personnel or organization detailed in this application form, it is the responsibility of the Lead Researcher to seek the agreement of the Data Archive to these changes. Where there is a change to the employer organization of the Lead Researcher this will involve a new application being made and termination of the original project.
12. Breaches of the agreement will be taken seriously and the Data Archive will take action against those responsible for the lapse if willful or accidental. Failure to comply with the directions of the Data Archive will be deemed to be a major breach of the agreement and may involve recourse to legal proceedings. The Data Archive will maintain and share with partner data archives a register of those individuals and organizations which are responsible for breaching the terms of the Data Access Agreement and will impose sanctions on release of future data to these parties.

**Citation Requirements**

<https://doi.org/10.23664/AHRI.m-Africa.2019.v1>

## Files Description

Dataset contains 0 file(s)

# Variables List

Dataset contains 0 variable(s)