

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

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Overview

Identification

ID NUMBER

AHRI.m-Africa.2019.v1

Version

VERSION DESCRIPTION

V1.0.0

Overview

ABSTRACT

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).

KIND OF DATA

Images of POC HIV tests to train and evaluate a smartphone application to automate interpretation of commercial HIV tests and biobarcode tests

UNITS OF ANALYSIS

Photographs of individual test strip responses.

TOPICS

Topic	Vocabulary	URI
HIV-1; Incidence; Phylogeny; Epidemics; Population Surveillance; Rural Population; HIV Infections; Africa	Africa Health Research Institute	www.ahri.org

KEYWORDS

HIV rapid test, Point-of-care test, Lateral Flow test

Coverage

GEOGRAPHIC COVERAGE

Demographic surveillance area of the Africa Health Research Institute; KwaZulu-Natal, uMkhanyakude district.

UNIVERSE

Population Intervention Program

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Herbst, Kobus	Africa Health Research Institute
McKendry, Rachel	University College London
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OTHER PRODUCER(S)

Name	Affiliation	Role
Africa Health Research Institute		

FUNDING

Name	Abbreviation	Role
Medical Research Council (UK)	MRC	

OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role
Gareta, Dickman	Africa Health Research Institute	
Turbe, Valerian	University College London	
Dube, Sweetness	Africa Health Research Institute	

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Africa Health Research Institute	AHRI		

DDI DOCUMENT ID

DDI.AHRI.m-Africa.2019.v1

Sampling

Sampling Procedure

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.

Questionnaires

No content available

Data Collection

Data Collection Dates

Start	End	Cycle
2017-08-01	2019-06-18	N/A

Data Processing

Data Editing

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

Data Appraisal

No content available

File Description

Variable List

Documentation

Technical documents

Documentation:m-Africa

Title Documentation:m-Africa
Author(s) Sweetness H Dube
Date 18/06/2019
Country South Africa
Language English
Filename Data Documentation_mAfrica.pdf

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