

KENYA - DEVELOPING, IMPLEMENTING,
AND EVALUATING AN ELECTRONIC
PERSONAL HEALTH RECORD FOR
PEOPLE ON THE MOVE IN VARIOUS
SETTINGS AROUND THE GLOBE (NOVO-
HealthEMove Pilot Project),
HealthEmove

Frederick Murunga Wekesah

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Overview

Identification

ID NUMBER

DDI-KEN-APHRC-HealthEMove-2024-V10

Version

VERSION DESCRIPTION

PRODUCTION DATE

2025-04-30

NOTES

N/A

Overview

ABSTRACT

Project Summary:

Background and rationale: Migration is a recurrent phenomenon in the history of mankind and it can be defined as “the movement of persons away from their place of usual residence”, irrespective of reasons for migration and means used to migrate (IOM).

Informed by this broad definition of migration, in our study, we use the term “mobile populations” to refer to individuals or groups of persons who, whether voluntarily or forcibly, change their location of residence and/or lack a permanent home address. In this definition, we include movements that occur locally, nationally, and/or across borders, for a short and/or long duration. Groups categorized as “mobile populations” in this study therefore include refugees, asylum seekers, and migrants, but also undocumented migrants, temporary labor migrants, international workers, homeless people, nomads and internally displaced persons.

In relation to healthcare, mobile populations tend to change healthcare providers, which often results in discontinuity and low quality of care. While several factors can contribute to disrupting the continuity of care experienced by different mobile populations, lack of previous medical history is a common barrier affecting the continuity and quality of healthcare experienced by all different groups of mobile populations.

Literature shows that access to medical information can empower people and potentially improve the continuity and quality of care for mobile populations. In recent years there has been a lot of innovation regarding the development of Electronic Personal Health Records (EPHRs). However, EPHRs are often not specifically designed for mobile populations.

Aim: To explore the perceived usefulness (benefits and barriers) of electronic personal health records for improving the continuity of care for mobile populations.

Study design: Qualitative exploratory studies.

Deliverables: WP1: Rapid Systematic Review, WP2: Pilot Studies in the Four Settings (Kenya, Ghana, Netherlands & Denmark), WP3: Full Proposal.

Study duration: October 01, 2024 - April 30, 2025

Funder: Novo Nordisk Foundation.

Budget: *50,000 EUR (APHRC Portion 11,250 EUR).

Partners: University of Amsterdam- the Netherlands, University of Aarhus- Denmark, Kwame Nkrumah University of Science

APHRC Project Staff: Frederick Murunga Wekesah (PI/PM), Simeon Kintu Paul (Research Officer)

UNITS OF ANALYSIS

Individual

Institutional

Scope

NOTES

The scope of HealthEMove included;

-Macro level stakeholders: (Introduction, Demographics, Understanding of Mobile Populations, Perceptions of Continuity of Care, Digitalization in Healthcare and the role of EPHRs).

-Meso level stakeholders: (Introduction, Demographics, Understanding of Mobile Populations, Perceptions of Continuity of Care, Role of Electronic Personal Health Records (EPHR)).

KEYWORDS

electronic personal health record, migration, mobile populations, medical data exchange, digital health, health equity

Coverage

GEOGRAPHIC COVERAGE

National coverage – Nairobi County.

UNIVERSE

-National and Governmental Stakeholders Involved with Digital Health.

-NGOs and Organizations Working with Vulnerable Populations.

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Frederick Murunga Wekesah	African Population and Health Research Center (APHRC)

OTHER PRODUCER(S)

Name	Affiliation	Role
Simeon Kintu Paul	African Population and Health Research Center (APHRC)	Research and Data Documentation Officer
Bonface Butichi Ingumba	African Population and Health Research Center (APHRC)	Data Governance Officer

FUNDING

Name	Abbreviation	Role
Novo Nordisk Foundation		Funder

OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role
Prof. Dr. Charles Agyemang	University of Amsterdam - the Netherlands	Overall PI

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
African Population and Health Research Center	APHRC	APHRC	Documentation of the DDI

DATE OF METADATA PRODUCTION

2025-04-30

DDI DOCUMENT VERSION

Version 1.0 (April, 2025)

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Sampling

Sampling Procedure

An exploratory qualitative approach, involving a series of interviews with key stakeholders, was used in this study. Participants were recruited through purposive and convenience sampling, with snowball techniques employed to extend the pool of potential participants as they were recruited. Invitations were sent either via email or through personal, in-person encounters.

Deviations from Sample Design

There was no deviation from the original sample design.

Response Rate

The response rate was 95%.

Weighting

N/A

Questionnaires

Overview

We used in-depth interview guides to conduct stakeholder consultations with Macro (National and Governmental Stakeholders) and Meso level (NGOs and Organizations Working with Vulnerable Populations) participants.

1). In-depth Interview Guide for participants at the Macro level;

>The following were the key thematic areas:

- Section I: Introduction
- Section II: Demographics
- Section III: Understanding of Mobile Populations
- Section IV: Perceptions of Continuity of Care
- Section V: Digitalization in Healthcare and the role of EPHRs
- Section VI: Closing

2). In-depth Interview Guide for participants at the Meso level;

>The following were the key thematic areas:

- Section I: Introduction
- Section II: Demographics
- Section III: Understanding of Mobile Populations
- Section IV: Perceptions of Continuity of Care
- Section V: Role of Electronic Personal Health Records (EPHR)
- Section VI: Closing

Data Collection

Data Collection Dates

Start	End	Cycle
2024-11-27	2025-02-14	N/A

Data Collection Mode

Other [oth]

Questionnaires

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- Section III: Understanding of Mobile Populations
- Section IV: Perceptions of Continuity of Care
- Section V: Role of Electronic Personal Health Records (EPHR)
- Section VI: Closing

Supervision

The project team comprised the Principal Investigator (PI), who also served as the Project Manager (PM), and a Research Officer who was responsible for recruiting study participants and scheduling appointments for in-depth interviews with stakeholders. In-depth interviews were conducted as part of stakeholder consultations and were facilitated by both the PI/PM and the Research Officer. The interview guides were reviewed for validity and reliability prior to data collection. A transcriber was engaged to assist with transcribing the audio recordings. The Research Officer reviewed the transcripts to ensure they were consistent with the audio and that all necessary information had been accurately captured. Additionally, the Research Officer played a key role in managing the data collection process, including planning, scheduling, conducting quality checks, analyzing data, and contributing to report writing.

Data Processing

Data Editing

Data editing occurred at multiple stages during processing, including checking the coherence of transcripts, conducting quality checks, and assessing the validity and relevance of key themes and sub-themes in relation to the study objectives. Recording was done using a digital recorder (Sony), with phone recordings used as a backup. Additional quality checks were carried out to ensure the integrity of the data collected and to confirm that all relevant information was captured throughout the process. Coding was conducted using NVivo software (version 15), guided by a codebook framework developed specifically for the qualitative data analysis.

Other Processing

The audio files were transcribed by a transcriber, and the transcripts were coded using NVivo version 15. Coding was conducted both manually and with the support of NVivo. A hybrid approach, combining inductive and deductive coding, was applied during thematic analysis.

Data Appraisal

Estimates of Sampling Error

N/A

File Description

Variable List

Documentation

Questionnaires

Interview Guide for Participants at the Meso Level.pdf

Title Interview Guide for Participants at the Meso Level.pdf
Author(s) African Population and Health Research Center
Date 12/05/2025
Country KENYA
Language ENGLISH
Contributor(s) Frederick Murunga Wekesah, Simeon Kintu Paul and Bonface Butichi Ingumba
Publisher(s) APHRC
Filename Interview Guide for Participants at the Meso Level.pdf

Interview Guide for Participants at the Macro Level.pdf

Title Interview Guide for Participants at the Macro Level.pdf
Author(s) African Population and Health Research Center
Date 12/05/2025
Country KENYA
Language ENGLISH
Contributor(s) Frederick Murunga Wekesah, Simeon Kintu Paul and Bonface Butichi Ingumba
Publisher(s) APHRC
Filename Interview Guide for Participants at the Macro Level.pdf

Other materials

HealthEMove Project (APHRC Protocol).docx

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Date 12/05/2025
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