

A Randomised Field Trial Protocol for Evaluating the Adoption of Community Health Centre Systems in Rwanda

A Methodological Assessment

Marie Aimee Mukantwari^{1,2}, Jean de Dieu Uwimana³

University of Rwanda | Department of Pediatrics, Rwanda Environment Management Authority (REMA) |
Department of Public Health, University of Rwanda

Correspondence: mmukantwari@yahoo.com

Received: 04 June 2021 | Accepted: 03 September 2021 | Published: 20 October 2021 | DOI:

[10.5281/zenodo.18951624](https://doi.org/10.5281/zenodo.18951624)

ABSTRACT

Background: The effectiveness of community health centre (CHC) systems in sub-Saharan Africa hinges on their adoption by local communities. While numerous CHC models have been implemented, robust methodological frameworks for evaluating their real-world adoption rates are lacking, particularly in rural settings.

Purpose and objectives: This protocol details a methodological assessment of a randomised field trial designed to measure the adoption rate of a new CHC system in Rwanda. The primary objective is to estimate the causal effect of system introduction on household utilisation. Secondary objectives include identifying demographic and socio-economic moderators of adoption.

Keywords: *Randomised controlled trial, Implementation science, Community health centres, Sub-Saharan Africa, Health systems research, Adoption rates, Rwanda*

Article Highlights

- Cluster-randomised trial across 60 villages in Rwanda to measure CHC adoption.
- Primary outcome: household-level utilisation over 12 months.
- Hierarchical logistic regression model with cluster-robust inference.
- Aims to identify socio-economic moderators of health system adoption.

Methodological Contribution

Presents a validated measurement framework for assessing adoption rates of community health interventions, designed for rural sub-Saharan African contexts.

This article details a study protocol; empirical results are forthcoming.

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

REQUEST FULL PAPER

 **Email:** info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

**Are you a researcher in Africa? We
welcome your submissions!**

Join our community of African scholars and share
your groundbreaking work.

 **Submit at:** app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global
Knowledge