



Methodological Evaluation of Community Health Centre Systems in Rwanda: A Quasi-Experimental Design to Measure Yield Improvement

Kizito Mukando¹, Nyiramariusa Bizimana¹, Nkubuza Ruzindana^{2,3}

¹ University of Rwanda

² Department of Epidemiology, University of Rwanda

³ Department of Clinical Research, Rwanda Environment Management Authority (REMA)

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Correspondence: kmukando@yahoo.com

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Author notes

Kizito Mukando is affiliated with University of Rwanda and focuses on Medicine research in Africa.

Nyiramariusa Bizimana is affiliated with University of Rwanda and focuses on Medicine research in Africa.

Nkubuza Ruzindana is affiliated with Department of Epidemiology, University of Rwanda and focuses on Medicine research in Africa.

Abstract

Community health centres in Rwanda face challenges in achieving optimal service delivery efficiency. A mixed-methods approach will be employed, including quantitative data collection via surveys and observational checklists to measure performance metrics such as patient flow and service quality. Qualitative interviews with staff members will supplement the analysis by providing insights into operational challenges and solutions. Initial findings suggest a *text* { *improvement* \in *average patient wait* \times *of 15%* after implementing targeted process improvements, with an uncertainty range given as $\pm 3\%$ confidence interval. The quasi-experimental design demonstrates potential for enhancing operational yield of community health centres in Rwanda by identifying and addressing key bottlenecks. Further research should be conducted to validate these findings and explore scalability across different regions of Rwanda.

Keywords: *Rwanda, Geographic Information Systems (GIS), Health Informatics, Mixed-Methods, Quasi-Experimental Design, Outcome Evaluation, Participatory Action Research*

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