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Methodological Evaluation of Community Health Centre Systems in Uganda: A Randomized Field Trial Approach

Kabwata Okello[1,2], **Tumwebaze Muhumuza**[3,4]

[1] Makerere University, Kampala

[2] Uganda Christian University, Mukono

[3] Department of Surgery, Makerere University, Kampala

[4] Department of Surgery, Uganda Christian University, Mukono

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Correspondence: kokello@gmail.com

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Author notes

Kabwata Okello is affiliated with Makerere University, Kampala and focuses on Medicine research in Africa.

Tumwebaze Muhumuza is affiliated with Department of Surgery, Makerere University, Kampala and focuses on Medicine research in Africa.

Abstract

Community health centres in Uganda face challenges in their delivery of healthcare services. A systematic literature review was conducted using databases such as PubMed, Cochrane Library, and Google Scholar. Studies were included if they utilised randomized field trials to measure yield improvements in community health centres in Uganda. The analysis highlighted the use of a mixed-methods approach combining quantitative data from patient surveys with qualitative insights from health workers' interviews, yielding an overall improvement rate of 25% in service delivery efficiency across all reviewed studies. This review underscores the effectiveness of randomized field trials in evaluating community health centre systems and identifies the importance of integrating both quantitative and qualitative methodologies for comprehensive evaluations. Future research should consider implementing a standardised evaluation framework to ensure consistency in methodology, and policymakers could leverage these findings to enhance service delivery efficiency. Community Health Centres, Uganda, Randomized Field Trials, Methodological Evaluation Treatment effect was estimated with $text\{logit\}(\pi) = beta 0 + \vec{\beta} p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African healthcare, community health centers, randomized trials, evaluation methods, public health systems, intervention studies, outcome measurement*

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