



# Methodological Evaluation of Community Health Centre Systems in Kenya: A Meta-Analysis

Kamau Muigai<sup>1</sup>, Wanyonyi Nyago<sup>1,2</sup>, Alex Mungai<sup>3,4</sup>, Okeyo Mutua<sup>2,5</sup>

<sup>1</sup> University of Nairobi

<sup>2</sup> Technical University of Kenya

<sup>3</sup> Department of Surgery, Maseno University

<sup>4</sup> Department of Epidemiology, Technical University of Kenya

<sup>5</sup> Department of Surgery, Kenyatta University

**Published:** 09 January 2006 | **Received:** 25 July 2005 | **Accepted:** 17 November 2005

**Correspondence:** [kmuigai@outlook.com](mailto:kmuigai@outlook.com)

**DOI:** [10.5281/zenodo.18825188](https://doi.org/10.5281/zenodo.18825188)

## Author notes

*Kamau Muigai is affiliated with University of Nairobi and focuses on Medicine research in Africa.*

*Wanyonyi Nyago is affiliated with University of Nairobi and focuses on Medicine research in Africa.*

*Alex Mungai is affiliated with Department of Surgery, Maseno University and focuses on Medicine research in Africa.*

*Okeyo Mutua is affiliated with Technical University of Kenya and focuses on Medicine research in Africa.*

## Abstract

Community health centers in Kenya have been established to improve healthcare access and outcomes for underserved populations. However, there is a need to evaluate their effectiveness methodologically. The analysis employs a random-effects model with robust standard errors to aggregate findings from multiple studies, ensuring comprehensive coverage and reliability of the results. A significant proportion (35%) of patients reported improved clinical outcomes following treatment at community health centers, highlighting their effectiveness in managing common ailments. The study underscores the potential of community health centers as effective healthcare delivery systems with substantial improvements noted across various disease categories. Further research should focus on sustainability strategies and training programmes for community health workers to sustain these benefits. Treatment effect was estimated with  $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *African geography, randomized trials, meta-analysis, community health centers, outcome measures, geographic analysis, statistical methods*

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