



# Methodological Evaluation of Community Health Centre Systems in Ethiopia: A Randomized Field Trial for Cost-Effectiveness Assessment

Mulu Gebru<sup>1</sup>

<sup>1</sup> Gondar University

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**Correspondence:** [mgebru@hotmail.com](mailto:mgebru@hotmail.com)

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## Author notes

*Mulu Gebru is affiliated with Gondar University and focuses on Medicine research in Africa.*

## Abstract

Community health centers (CHCs) play a crucial role in healthcare provision in Ethiopia, particularly in underserved rural areas. A mixed-method approach combining quantitative data collection through surveys and qualitative insights from interviews was employed. Statistical models were utilised for analysing cost-effectiveness, including a linear regression model with robust standard errors. The study revealed that the CHCs significantly reduced healthcare costs by 20 per patient consultation compared to traditional clinics ( $p < 0.05$ ). This randomized field trial provides evidence

$\text{logit}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *African geography, randomized trials, cost-effectiveness analysis, health systems evaluation, community participation, qualitative assessment, intervention studies*

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