



Methodological Assessment and Clinical Outcome Evaluation of Rural Clinics in Tanzania Using Difference-in-Differences Models

Kinyanjuri Mwalimu¹

¹ National Institute for Medical Research (NIMR)

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Correspondence: kmwalimu@hotmail.com

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Author notes

Kinyanjuri Mwalimu is affiliated with National Institute for Medical Research (NIMR) and focuses on Medicine research in Africa.

Abstract

The effectiveness of rural clinics in Tanzania has been a subject of interest due to their role in providing essential medical services in underserved areas. The review employed a comprehensive search strategy across databases, including MEDLINE, EMBASE, and African Rehabilitation Medicine. Studies were assessed for methodological quality using the Cochrane Risk of Bias tool (RoB). A total of 72 studies met inclusion criteria, with most employing DiD models to assess clinical outcomes. The DiD approach demonstrated potential in evaluating rural clinic effectiveness but was subject to significant methodological variability across studies. Future research should prioritise enhanced study design and reporting standards for consistent results interpretation. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Tanzania, rural clinics, difference-in-differences, evaluation methods, health services, statistical models, geographical analysis*

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