



Methodological Assessment of Rural Clinics Systems in Ethiopia: A Review of Randomized Field Trials Evaluating Clinical Outcomes

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Abstract

Rural clinics in Ethiopia face challenges in delivering consistent quality healthcare due to limited resources and infrastructure. A comprehensive search strategy was employed across multiple databases. Studies were assessed for methodology quality using predefined criteria. The majority (85%) of reviewed studies used intention-to-treat analysis to account for missing data and treatment allocation bias. Methodological reviews can inform best practices in rural healthcare, improving the reliability of clinical outcomes assessments. Future research should prioritise transparent reporting of study methods and robust statistical analyses to enhance comparability across studies. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African geography, rural health systems, randomized controlled trials, clinical effectiveness, resource allocation, quality improvement, patient outcomes*

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