



Methodological Evaluation of Rural Clinics in Ethiopia: A Multilevel Regression Analysis of Clinical Outcomes

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Abstract

Rural clinics in Ethiopia have been established to improve healthcare access for underserved populations. However, their effectiveness varies significantly across different regions and settings. A meta-analysis was conducted using data from multiple studies, employing multilevel logistic regression to account for clustering at both the clinic level (level-1) and region-level (level-2). The analysis revealed a significant positive association between clinic quality indicators and patient recovery rates (OR = 1.54, $p < .05$), with a majority of clinics in the highest quartile achieving better outcomes. This study underscores the importance of consistent monitoring and improvement efforts to optimise rural healthcare systems in Ethiopia. Health policymakers should prioritise regular quality assessments and targeted interventions for underperforming clinics, particularly in higher-risk regions. Rural Clinics, Multilevel Regression, Clinical Outcomes, Quality Improvement, Ethiopia

Keywords: *Sub-Saharan, African, Quantitative, Qualitative, Analysis, Socioeconomic, Contextual*

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