



# Methodological Evaluation of Community Health Centres Systems in Tanzania Using Multilevel Regression Analysis for Adoption Rates,

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## Abstract

Community health centres in Tanzania have been established to improve access to healthcare services among underserved populations. However, there is a need for methodological evaluation of their systems and adoption rates. A longitudinal study was conducted across multiple community health centres in Tanzania. Data were collected from to , with a focus on assessing the effectiveness of healthcare services provided. Multilevel regression analysis was employed to account for both individual and contextual effects. The multilevel model revealed that factors such as geographical location and community socioeconomic status significantly influenced adoption rates at both the individual and centre levels. This study provides a robust framework for understanding the dynamics of healthcare service adoption in community health centres, contributing to evidence-based policy development. Further research should focus on sustainability strategies and continuous improvement initiatives within these health centres. Treatment effect was estimated with  $\text{text}\{ \text{logit} \}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *African geography, multilevel analysis, community health centers, service delivery, adoption rates, regression, geographic information systems*

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