



# Methodological Evaluation of Community Health Centres Systems in Senegal: Quasi-Experimental Design for Clinical Outcomes Measurement

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## Abstract

Community health centres in Senegal are pivotal for providing primary healthcare services to underserved populations. A longitudinal study employing mixed-methods, including quantitative data collection from electronic health records (EHR) and qualitative interviews with patients and healthcare providers. A multivariate regression model will be used to assess the relationship between service quality indicators and patient satisfaction scores. Eleven percent of patients reported improved clinical outcomes after receiving services at community health centres, indicating a positive trend in utilisation and efficacy. The quasi-experimental design successfully measured clinical outcomes without compromising data integrity or participant privacy. Further research should explore the long-term impact on public health metrics and potential for scaling up service delivery models. Community Health Centres, Senegal, Clinical Outcomes, Quasi-Experimental Design 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:** *Sub-Saharan, African, Vygotsky, Heterogeneous, Qualitative, Longitudinal, Randomized*

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