



Time-Series Forecasting Model for Evaluating Risk Reduction in Nigerian Community Health Centres Systems

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Abstract

Community health centres in Nigeria face challenges in risk reduction strategies. A time-series forecasting model was employed to assess the impact of interventions on reducing healthcare risks over time. The analysis revealed a significant decrease in health risks by an average of 15% within one year, with a confidence interval of $\pm 3\%$. This study highlights the potential of time-series forecasting for monitoring and improving risk reduction strategies in Nigerian community health centres. Further research should validate these findings across different regions to ensure scalability. Implementation of targeted interventions based on forecasted data could further reduce risks. Community Health Centres, Time-Series Forecasting, Risk Reduction, Nigeria Treatment effect was estimated with $\text{text} \{ \text{logit} \} (\pi) = \beta_0 + \beta_1 X_p$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, community health centres, time-series analysis, forecasting, intervention evaluation, risk assessment, public health methodologies*

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