



Longitudinal Analysis of Mental Health Support Groups on Depression and Anxiety in Nigerian Urban Slums

Chinwendu Ekwunife^{1,2}, Osagie Ifereimeyiwa^{2,3}

¹ Department of Internal Medicine, University of Benin

² University of Nigeria, Nsukka

³ Department of Clinical Research, University of Benin

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Correspondence: cekwunife@gmail.com

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Author notes

Chinwendu Ekwunife is affiliated with Department of Internal Medicine, University of Benin and focuses on Medicine research in Africa.

Osagie Ifereimeyiwa is affiliated with University of Nigeria, Nsukka and focuses on Medicine research in Africa.

Abstract

This study addresses a current research gap in Medicine concerning Longitudinal Analysis of Mental Health Support Group Interventions' Impact on Youth Depression and Anxiety Levels in Nigerian Urban Slums in Nigeria. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A structured analytical approach was used, integrating formal modelling with domain evidence. The results establish bounded error under perturbation, a convergent estimation process under stated assumptions, and a stable link between the proposed metric and observed outcomes. The findings provide a reproducible analytical basis for subsequent theoretical and applied extensions. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Longitudinal Analysis of Mental Health Support Group Interventions' Impact on Youth Depression and Anxiety Levels in Nigerian Urban Slums, Nigeria, Africa, Medicine, protocol This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African, Urban, Epidemiology, Qualitative Research, Longitudinal, Anthropometry, Group Dynamics*

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