



Dietary Supplements and Health Improvement in Elderly Diabetics of Dakar, Senegal: An Intervention Study

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Abstract

This study addresses a current research gap in Medicine concerning "Dietary Supplement Usage among Elderly Diabetics in Dakar, Senegal: Health Improvement Rates" in Senegal. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A mixed-methods design was used, combining survey and interview data collected over the study period. 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. "Dietary Supplement Usage among Elderly Diabetics in Dakar, Senegal: Health Improvement Rates", Senegal, Africa, Medicine, intervention study This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Treatment effect was estimated with $\text{text} \{ \text{logit} \} (\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African, Geographic, Diabetes, Intervention, Nutritional, Supplemental, Therapeutic*

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