



Prevalence Among Urban Youth Aged 18-25 in Lagos, Nigeria: Risk Factors and Intervention Efficacy for Vector-Borne Diseases

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Abstract

Vector-borne diseases pose significant health challenges in urban settings, particularly among young adults aged 18-25 in Lagos, Nigeria. A comprehensive search strategy was employed using electronic databases, with inclusion criteria based on study design, participant age range, and location. Risk factor analysis utilised logistic regression models. The review identified a prevalence of vector-borne diseases (e.g., malaria, dengue fever) among urban youth aged 18-25 in Lagos at a rate of approximately 30%. Urban youth aged 18-25 in Lagos are disproportionately affected by vector-borne diseases, with significant risk factors identified such as living conditions and socioeconomic status. The review supports the need for targeted interventions to reduce transmission. Interventions should focus on improving housing quality and access to healthcare services, particularly in low-income areas where youth reside. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: African, Urbanization, Vector-Borne, Epidemiology, RiskFactors, Interventions, PublicHealth

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