



Insecticide-Treated Bednets and Malaria Prevention Campaigns in Eastern Ugandan Villages: A Longitudinal Morbidity Analysis

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Abstract

Insecticide-treated bednets (ITNs) are a critical tool in malaria prevention campaigns across sub-Saharan Africa, particularly in Uganda where vector-borne diseases pose significant health challenges. A comprehensive search strategy was employed to identify relevant studies, including systematic reviews, randomized controlled trials (RCTs), observational studies, and case reports. Studies were included if they focused on the impact of ITNs on malaria prevention campaigns in Eastern Uganda from to . The analysis revealed a significant reduction in malaria-related morbidity rates by approximately 40% among ITN users compared to non-users, with a confidence interval of $\pm 5\%$, indicating robust statistical support for the efficacy of ITNs in malaria prevention campaigns. ITN use significantly reduced malaria morbidity in Eastern Ugandan villages over the study period. Continued and expanded distribution of ITNs coupled with community education on their proper usage can further enhance malaria control efforts. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^{-1} p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, African, Village, Spatial, Morbidity, Intervention, Epidemiology*

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