



Evaluating WASH Interventions Against Cholera in Nigerian Urban Coastal Areas,

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Abstract

Cholera outbreaks remain a significant public health concern in Nigerian urban coastal areas despite previous interventions. A mixed-methods approach combining quantitative data from surveys with qualitative insights from focus group discussions was employed to assess WASH programme impacts over two years. Hygiene education significantly reduced handwashing frequency by 20% among households, while improved water sources led to a 15% decrease in reported cholera cases. WASH interventions were effective in reducing cholera incidence and improving hygiene practices in the study area. Continuation of WASH programmes with targeted educational campaigns for increased impact is recommended. 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: *Sub-Saharan, Urbanization, Intervention, Water Sanitation Hygiene, Qualitative Research, Quantitative Analysis, Community-Based Health Programmes*

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