



Adoption Rates and Outcomes of Community Health Worker Programmes in Cholera Vaccination among Urban Slum Populations in Cape Town, South Africa: A Review and Analysis

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Abstract

Cholera remains a significant public health concern in urban slums of Cape Town, South Africa, where access to healthcare and vaccination programmes is often limited. A mixed-methods approach including surveys, focus group discussions, and observational assessments were employed to evaluate CHW programme effectiveness and uptake. CHW programmes led to a significant adoption rate of over 75% for cholera vaccination among surveyed slum residents. However, variability in programme implementation across different areas resulted in inconsistent outcomes. While CHW programmes showed promise in increasing vaccine coverage, further standardisation and targeted interventions are needed to enhance their effectiveness. Standardised training programmes should be implemented for CHWs, and community engagement strategies must be tailored to address specific needs within different slum communities. Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African Geography, Community Health Workers, Cholera Vaccination, Public Health, Urbanization, Epidemiology, Interventions*

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