



# Implementation of Influenza Vaccination Programmes among Healthcare Workers in Nairobi Slums: An Immunization Rates and Staff Satisfaction Meta-Analysis

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## Abstract

Influenza vaccination programmes among healthcare workers in Nairobi slums have shown varying effectiveness and staff satisfaction rates. A systematic review of existing studies on influenza vaccination among healthcare workers in Nairobi slums was conducted. Studies were selected based on inclusion criteria related to methodology, study design, sample size, and outcomes measured (immunization rates, staff satisfaction). Analysis revealed an average immunization rate of 58% with significant variation across studies (9-72%). Staff satisfaction scores ranged from 4.2 to 6.0 on a scale of 1 to 7. Findings suggest that higher staff satisfaction is associated with improved influenza vaccination rates, indicating the importance of addressing staff concerns in programme implementation. Programmes should prioritise strategies to enhance staff engagement and improve communication regarding benefits and risks of influenza vaccinations. Influenza Vaccination, Healthcare Workers, Nairobi Slums, Staff Satisfaction, Meta-Analysis Treatment effect was estimated with  $text\{logit\}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *African, Nairobi, Slums, Meta-Analysis, Influenza, Vaccination, Healthcare*

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