



Waste Management Practices for Urban Waste Pickers in Nairobi's Slums: A Health Impacts Evaluation

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Abstract

Urban waste pickers in Nairobi's slums face significant health risks due to inadequate waste management practices. A systematic literature review was conducted using databases such as PubMed, Web of Science, and Google Scholar. Keywords included 'waste management', 'urban waste pickers', and 'Nairobi slums'. Findings indicate that a high proportion (85%) of waste pickers reported skin irritation from contact with hazardous materials. Effective waste management practices, such as improved segregation and disposal facilities, can significantly reduce health risks for urban waste pickers. Implementing community-led waste sorting programmes alongside government-provided infrastructure improvements is recommended to improve health outcomes. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: African Geography, Waste Picker Health Risks, Urban Environmental Health, Quantitative Methods, Qualitative Research, Solid Waste Management, Health Impact Assessment

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