



Community-Led Waste Management Initiatives and Health Outcomes Among Vulnerable Populations in Kampala, Uganda

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Abstract

This study examines community-led waste management initiatives in Kampala, Uganda to assess their impact on health outcomes among vulnerable populations. Community surveys were conducted with a sample size of 300 participants, using a structured questionnaire designed to measure waste management practices and health status over two years. Data analysis revealed that the proportion of households participating in waste segregation increased from 25% pre-intervention to 60% post-intervention. This was statistically significant ($p < 0.01$). Community-led waste management initiatives have led to a substantial improvement in health outcomes among vulnerable populations, with a notable increase in sanitation practices. Further research should focus on the long-term effects of these interventions and explore ways to sustain them within community structures.

Keywords: *Community-led Initiatives, Waste Management, Public Health, Vulnerable Populations, Community Surveys, Geographic Focus, Epidemiology, Sustainable Development*

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