African Biodiversity Research (Environmental/Earth Science)

Biodegradable Waste Management in Urban Universities of Dakar: Community Acceptability Study

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Abstract

Urban universities in Dakar face significant challenges in managing biodegradable waste effectively, particularly from medical sources. A mixed-method approach including surveys and focus group discussions was employed to gather data on community perceptions. Community members expressed moderate acceptance (35% positive response rate) towards the introduction of a composting facility for medical waste, highlighting concerns about odor control and safety protocols. Initial findings suggest that further engagement with stakeholders is necessary to address identified concerns before implementing comprehensive biodegradable waste management solutions in urban universities. Communities should be actively involved in the design process of proposed waste management systems, incorporating feedback to ensure community acceptance and efficacy. Treatment effect was estimated with $text{logit}(\pi) = beta 0 + \vec{\beta} p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African Geography, Biodegradable Waste Management, Community Acceptability, Focus Groups, Mixed-Methods, Urban Planning, Waste Segregation*

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