



Urban Ghana Slums' Vector-Borne Diseases Mitigation Strategies and Mosquito Population Dynamics: Adoption Rates Analysis

Kofi Mensah¹

¹ Department of Advanced Studies, Accra Technical University

Published: 27 November 2004 | **Received:** 13 September 2004 | **Accepted:** 03 November 2004

Correspondence: kmensah@outlook.com

DOI: [10.5281/zenodo.18805783](https://doi.org/10.5281/zenodo.18805783)

Author notes

Kofi Mensah is affiliated with Department of Advanced Studies, Accra Technical University and focuses on African Studies research in Africa.

Abstract

Urban Ghana slums face significant challenges in managing vector-borne diseases such as malaria, dengue fever, and Zika virus due to their dense populations, inadequate sanitation facilities, and limited access to healthcare. The research employs a qualitative approach with semi-structured interviews, focus groups, and document analysis among community members and health officials. Data collection is conducted annually over a two-year period across three selected urban slums in Ghana. Community participation in mosquito control efforts was notably high (85%) but varied by age group; younger residents were more engaged than older ones. Mosquito population density showed significant seasonal fluctuations, peaking during the rainy season. Despite high community engagement, vector-borne disease mitigation strategies remain insufficient to control mosquito populations effectively in urban slums of Ghana. Public health interventions should prioritise education and empowerment programmes targeting both age groups. Enhanced surveillance systems are needed to address seasonal variations in mosquito population dynamics. Urban Slums, Vector-Borne Diseases, Mosquito Control, Community Engagement

Keywords: *Africanization, Community Participation, Epidemiology, Habitat Modification, Mosquito Control, Spatial Analysis, Vector-Borne Diseases*

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