



Access Points for Malaria Treatment Among Underserved Populations in Ghana: A Geographic Analysis

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Abstract

Malaria remains a significant public health issue in Ghana, affecting underserved populations disproportionately. A Geographic Information System (GIS) was employed to map available healthcare facilities and assess their accessibility by population density. The analysis revealed a 20% disparity in the distribution of healthcare centers across urban versus rural areas, with an average distance from nearest facility being 15 kilometers for rural populations. This study highlights the need for targeted interventions to improve access to malaria treatment in underserved regions. Increased investment in remote health infrastructure and community-based awareness programmes are recommended to reduce travel time to healthcare centers. Malaria, Access Points, GIS Analysis, Underserved Populations, Ghana Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^{-1} p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Geographic, underserved, GIS, malaria, access, intervention, distribution*

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