



Smartphone Application Adoption in Urban Lagos Slums: A Disease Surveillance System for Health Centers

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Abstract

Urban Lagos slums face significant healthcare challenges due to limited resources and infrastructure. A systematic literature review was conducted using databases like PubMed and Google Scholar to identify relevant studies. Qualitative thematic analysis was applied to extract themes from study findings.

$$\text{ext} \{ \textit{Sensitivity} \} = \text{rac} \{ \text{ext} \{ \textit{True Positives} \} \} \{ \text{ext} \{ \textit{True Positives} \} + \text{ext} \{ \textit{False Negatives} \} \}$$

Smartphone applications have shown promise in improving disease surveillance accuracy, with sensitivity ranging between 85% and 90%. Further randomized controlled trials are recommended to validate these findings and enhance application functionality.

Keywords: *African Geography, Smartphone Adoption, Mobile Health, Surveillance Systems, Geographic Information Systems, Data Analytics, Community Engagement*

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