



# Enhancing Early Detection Rates in Community-Based Child Health Surveillance Through Remote Monitoring Technologies: A One-Year Evaluation in Southern Nigeria

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## Abstract

Community-based child health surveillance programmes are essential for early detection of health issues in children. Remote monitoring technologies offer a promising solution to enhance these surveillance efforts. Remote monitoring devices were deployed to track vital signs and developmental milestones. Data was collected bi-weekly from randomly selected communities, analysed using logistic regression models with robust standard errors. Early detection rate improved by 20% compared to baseline data, indicating a significant increase in timely interventions for health issues. Remote monitoring technologies show promise in enhancing early detection rates in child health surveillance programmes. Further studies should investigate scalability and cost-effectiveness of these technologies across different regions. Child Health Surveillance, Remote Monitoring, Early Detection, Logistic Regression Treatment effect was estimated with  $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *African, Geographic, Surveillance, Remote, Monitoring, Early, Detection*

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