



Assessment of Health System Resilience During Ebola Outbreaks in Liberian Communities: An Intervention Study

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Abstract

The Ebola virus outbreak in Liberia highlighted significant vulnerabilities in local healthcare systems during a major health emergency. Community-based participatory research employed mixed-methods including surveys, focus groups, and observational studies to gauge system performance over multiple outbreak cycles. A notable proportion (35%) of healthcare facilities reported inadequate supplies post-outbreak, despite receiving emergency funding. Liberian communities' health systems showed resilience in certain areas but required targeted interventions for supply chain management and community engagement strategies to prevent future vulnerabilities. Intervention studies should prioritise equitable resource distribution and robust supply chains alongside strengthening community participation in healthcare delivery. Ebola, health system resilience, Liberian communities, participatory research Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Geographic, Resilience, Intervention, Ebola, Community-Based, Participatory, Research*

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