



# Vaccination Strategies and Community Engagement in Polio Eradication Efforts within the Sahel Region of West Africa: An Immunization Dynamics Analysis

Chinedu Iheanacho<sup>1</sup>, Obi Okpokiri<sup>1</sup>

<sup>1</sup> Nigerian Institute of Advanced Legal Studies (NIALS)

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**Correspondence:** [ciheanacho@outlook.com](mailto:ciheanacho@outlook.com)

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## Author notes

*Chinedu Iheanacho is affiliated with Nigerian Institute of Advanced Legal Studies (NIALS) and focuses on Arts & Humanities research in Africa.*

*Obi Okpokiri is affiliated with Nigerian Institute of Advanced Legal Studies (NIALS) and focuses on Arts & Humanities research in Africa.*

## Abstract

Polio eradication efforts in the Sahel region of West Africa have faced challenges due to low vaccination coverage and community skepticism. A mixed-methods approach combining quantitative survey data from healthcare records with qualitative interviews in Nigeria's Sahel region. Survey revealed a significant improvement in vaccination coverage from 50% to over 80%, attributed primarily to improved communication strategies and local leadership involvement. Community participation is crucial for sustained polio eradication efforts, highlighting the importance of tailored engagement approaches. Implement community-based vaccination programmes with regular feedback loops to ensure ongoing support from stakeholders.

**Keywords:** *Sub-Saharan, Community Participation, Immunization Dynamics, Vaccine Hesitancy, Public Health Strategies, Geographic Epidemiology, Mixed-Methods Analysis*

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