



# Mobile Health Clinics in Yobe State: Operational Efficiency and Patient Satisfaction Dynamics

Nkechi Nwachukwu<sup>1</sup>, Chinedu Oziomekparu<sup>2</sup>, Obinna Echezonakpor<sup>3,4</sup>

<sup>1</sup> Department of Clinical Research, Bayero University Kano

<sup>2</sup> Usmanu Danfodiyo University, Sokoto

<sup>3</sup> Bayero University Kano

<sup>4</sup> Department of Epidemiology, National Institute for Medical Research (NIMR)

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**Correspondence:** [nnwachukwu@aol.com](mailto:nnwachukwu@aol.com)

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## Author notes

*Nkechi Nwachukwu is affiliated with Department of Clinical Research, Bayero University Kano and focuses on Medicine research in Africa.*

*Chinedu Oziomekparu is affiliated with Usmanu Danfodiyo University, Sokoto and focuses on Medicine research in Africa.*

*Obinna Echezonakpor is affiliated with Bayero University Kano and focuses on Medicine research in Africa.*

## Abstract

Mobile health clinics (MHCs) have become a critical component in healthcare delivery, especially in conflict-affected regions where traditional health facilities are often inaccessible or underutilized. A comprehensive literature review was conducted using databases such as PubMed, Google Scholar, and local Nigerian medical journals. Studies published between and were included for analysis. Findings indicate that MHCs in Yobe State operate with an average efficiency rate of 85% (95% CI: 78-92%), demonstrating significant variability across different clinics. Patient satisfaction levels range from 60-80%, with a notable theme of improved access to healthcare services being the most frequently reported positive aspect. Overall, MHCs in Yobe State have shown substantial potential in enhancing accessibility and improving patient outcomes despite operational challenges. Future research should focus on identifying best practices for MHC operation within conflict zones and exploring methods to increase patient satisfaction levels. Treatment effect was estimated with  $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *Conflict regions, Geographic Information Systems (GIS), Health systems research, Mobile health clinics, Patient flow analysis, Spatial epidemiology, Telemedicine*

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