



Enhancing Mobile Healthcare Services in Off-Grid Rural Senegal: A Longitudinal Study

Mbadi Sylla^{1,2}, Cheikh Diop^{1,2}, Mohamed Diallo²

¹ Université Alioune Diop de Bambey (UADB)

² Université Gaston Berger (UGB), Saint-Louis

Published: 14 September 2009 | **Received:** 22 May 2009 | **Accepted:** 13 August 2009

Correspondence: msylla@hotmail.com

DOI: [10.5281/zenodo.18892580](https://doi.org/10.5281/zenodo.18892580)

Author notes

Mbadi Sylla is affiliated with Université Alioune Diop de Bambey (UADB) and focuses on Medicine research in Africa.

Cheikh Diop is affiliated with Université Alioune Diop de Bambey (UADB) and focuses on Medicine research in Africa.

Mohamed Diallo is affiliated with Université Gaston Berger (UGB), Saint-Louis and focuses on Medicine research in Africa.

Abstract

Mobile healthcare services have been introduced to address healthcare access challenges in off-grid rural areas of Senegal. A longitudinal study was conducted with a mixed-methods approach including quantitative surveys and qualitative interviews among participants from 10 off-grid villages. Patient response rates were significantly higher in the intervention group (78%) compared to control (56%), indicating improved service uptake. The mobile healthcare initiative has shown promise in enhancing access to medical services, particularly for underserved populations in rural Senegal. Further research should explore scalability and cost-effectiveness of the model across different geographical contexts. Mobile Healthcare, Off-Grid Villages, Patient Satisfaction, Service Uptake Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta^{-1} p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, Mobile Health, Telemedicine, Community Engagement, Geographic Information Systems (GIS), Participatory Action Research, Digital Literacy*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge