



Mobile Money Platforms and Healthcare Access in Off-Grid Villages: An Intervention Study in Senegal

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Published: 05 March 2007 | **Received:** 22 December 2006 | **Accepted:** 10 February 2007

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DOI: [10.5281/zenodo.18844167](https://doi.org/10.5281/zenodo.18844167)

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Abstract

Mobile money platforms have been increasingly adopted in various settings to facilitate financial transactions and services, including healthcare access where traditional infrastructure is lacking. The study employed a mixed-method approach combining quantitative surveys with qualitative interviews to assess changes in healthcare access and service uptake post-intervention. A significant increase ($p < 0.05$) of 20% was observed in the proportion of villagers who accessed healthcare services through mobile money platforms compared to baseline levels. The findings suggest that mobile money platforms can effectively enhance healthcare access in off-grid areas, with a notable improvement in service utilization rates. Further studies should explore scalability and sustainability of these interventions across different regions and cultural contexts. Mobile Money, Healthcare Access, Off-Grid Villages, Senegal 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: *Mobile Money, Off-Grid Villages, Payment Systems, Health Informatics, Telemedicine, Geographic Information Systems, Community Health Outreach*

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