



Digital Diagnostics in Senegal: An Evaluation of Implementation and Impact on Rural Healthcare Providers

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Abstract

Digital diagnostics have shown promise in enhancing healthcare delivery, particularly in rural settings where access to specialized medical personnel is limited. A mixed-methods approach was employed, including pre- and post-intervention surveys along with qualitative interviews to assess provider satisfaction and usage patterns. Rural healthcare providers demonstrated a moderate (54%) preference for the digital kits over traditional methods, highlighting their convenience in initial diagnosis processes. The digital diagnostic kits were found to be effective in improving the speed of diagnosis without compromising accuracy. Provider feedback indicated significant ease of use and reliability. Further training sessions should be organised to maximise user proficiency with the digital tools, while ongoing support is crucial for sustained adoption. digital diagnostics, rural healthcare, provider satisfaction, convenience Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan African, Digital Diagnostics Kits, Health Technology Assessment, Rural Healthcare Access, Implementation Science, Quality Improvement Initiatives, Mixed Methods Studies*

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