



Development and Evaluation of a Multilingual E-learning Platform for Healthcare Providers in Eastern Uganda: An Integrated Approach

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Abstract

The healthcare landscape in Eastern Uganda faces significant challenges related to language barriers and digital literacy among healthcare providers. A mixed-methods approach incorporating surveys, focus groups, and usability testing was employed to design and evaluate the platform's effectiveness. Users reported an average satisfaction score of 8.5 out of 10 in a post-platform evaluation survey, indicating high user engagement and acceptance. The e-learning platform successfully addressed language barriers and improved digital literacy among healthcare providers in Eastern Uganda. Continuous monitoring and periodic updates are recommended to maintain the platform's relevance and effectiveness. e-learning, multilingual, healthcare providers, Eastern Uganda Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Multilingualism, E-learning, Healthcare Education, Digital Divide, Community Engagement, Health Literacy, Cross-cultural Communication*

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