AI Diagnostics in Resource-Constrained Healthcare: A Methodological Approach for Malawi's Context

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AI Diagnostics in Resource-Constrained Healthcare: A

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Abstract

AI diagnostics have shown potential in resource-constrained healthcare settings, particularly for disease diagnosis. A mixed-methods design was employed, incorporating surveys ($N=100$), $interviews(n=25),\wedge case\ studies(N=10)$ $among\ healthcare\ providers\wedge patients¿understand\ curren$ easibility. The findings indicate that 78% of respondents support the use of AI for disease diagnosis in Malawi, with a preference for algorithms having an accuracy rate above 95%. This study highlights the importance of aligning AI development with local healthcare needs and preferences to ensure successful integration into resource-constrained settings. Developers should prioritise algorithm accuracy and interpretability while healthcare providers need training and support for AI adoption. AI diagnostics, Malawi, mixed-methods, healthcare access, resource constraints

Keywords: *Sub-Saharan, African, Spatial-Data-Informed, Systematic, Literature-Synthesis, Qualitative-Methods, Geo-Epidemiology*

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