African Colorectal Surgery

Adoption Rates of Digital Diagnostics Tools in Rural Mozambique's Community Healthcare Settings: A Systematic Literature Review on Diagnostic Accuracy

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Abstract

Digital diagnostics tools have shown promise in improving diagnostic accuracy for various medical conditions, including colorectal cancer, which is a significant health issue in rural Mozambique. A comprehensive search strategy was employed to identify relevant studies. Studies were screened based on predefined inclusion criteria, and data extraction was performed using standardised forms. The analysis revealed that adoption rates of digital diagnostics tools vary significantly among different regions in Mozambique, with a median adoption rate of 45% across the reviewed studies. Digital diagnostic tools have the potential to improve diagnostic accuracy and access to care in rural healthcare settings but require tailored strategies for implementation. Healthcare providers should consider implementing digital diagnostics tools after careful evaluation of local contexts, including economic feasibility and technical support needs. Treatment effect was estimated with $text\{logit\}(\pi) = beta\,0 + \vec{\beta}\, p\, X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, diagnostic accuracy, digital health, mhealth, implementation science, community healthcare, rural settings*

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