Adoption and Usage Patterns of an Online Medical Training Programme among Community Health Workers in Sub-Saharan Africa: A Systematic Literature Review

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Abstract

Online medical training programmes are increasingly being adopted to enhance healthcare workers' skills in Sub-Saharan Africa. However, understanding how these programmes are implemented and utilised by community health workers (CHWs) is crucial for their effectiveness. A comprehensive search strategy was employed across multiple databases including PubMed, Embase, and Web of Science. Studies published between and were included if they reported quantitative data on the adoption and usage of an online medical training programme by CHWs in Côte d'Ivoire. A total of 45 studies met the inclusion criteria, indicating a moderate level of interest from CHWs in adopting such programmes (60% of respondents expressed willingness to use them). The review highlights significant variability in usage patterns across different training modules and institutional contexts. Further research should focus on understanding the long-term impact of these programmes and developing strategies to improve CHWs' engagement with online learning platforms. Treatment effect was estimated with $text\{logit\}(\pi) = beta\, 0 + \beta^{\rightarrow} p\, X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, Africa, online-training, social-impact, e-learning, utilisation, fidelity, methodology*

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