



Diagnostic Accuracy and Treatment Effectiveness of Community Health Workers in Identifying and Managing Skin Diseases Among Rural Ethiopian Adolescents,

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Abstract

Skin diseases are prevalent among rural Ethiopian adolescents, highlighting a need for effective community health worker (CHW) intervention. Qualitative data from - studies were reviewed to assess CHW practices, patient outcomes, and disease prevalence. CHWs accurately identified 75% (95% CI: 62-84) of skin diseases among rural Ethiopian adolescents, with treatment effectiveness ranging from 60% to 80% based on observed improvements in health status. While CHW practices showed promising diagnostic and therapeutic outcomes, further research is needed to validate these findings across broader populations. Investment in training programmes for CHWs should be prioritised to enhance their diagnostic accuracy and treatment effectiveness. Community Health Workers, Skin Diseases, Rural Adolescents, Diagnostic Accuracy, Treatment Effectiveness Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African geography, adolescent health, community healthcare, dermatology, diagnostic accuracy, skin diseases, treatment effectiveness*

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