



Effectiveness of Adolescent Reproductive Health Counselors on Teenage Contraceptive Use and Unintended Pregnancy Rates in Rural Western Uganda: A Twenty-Week Training Implementation Impact Analysis

Edward Mugenyi¹

¹ National Agricultural Research Organisation (NARO)

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Correspondence: emugenyi@outlook.com

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Author notes

Edward Mugenyi is affiliated with National Agricultural Research Organisation (NARO) and focuses on Medicine research in Africa.

Abstract

This study examines the impact of training adolescent reproductive health counselors on teenage contraceptive use and unintended pregnancy rates in rural Western Uganda. A quasi-experimental design was employed, comparing baseline data from pre-training surveys with follow-up assessments conducted at weeks 10 and 20 after the training intervention. There was a statistically significant increase in contraceptive use ($p < .05$) among participants who received training compared to those in the control group. The proportion of teenagers reporting unintended pregnancies decreased by 30% over the twenty-week period. The training effectively enhanced teenage contraceptive use and reduced unintended pregnancies, indicating its potential as a preventive measure for adolescent reproductive health issues. Continued support and reinforcement of counseling services are recommended to maintain these positive outcomes. Additionally, further research should explore long-term effects and scalability of the intervention. Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African, Geographical, ImpactAnalysis, AdolescentReproductiveHealth, CounselingEffectiveness, QuasiExperimentalDesign, RuralUganda*

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