



Community-Based Diabetes Management Programme's Impact on HbA1c Control in South African Communities: A 2012 Intervention Study

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Abstract

Diabetes management in South African communities has been challenging due to limited access to healthcare services and resources. The study employed a quasi-experimental design involving baseline assessments followed by a year-long intervention period. Participants were randomly assigned to either an intervention group or a control group. While the mean HbA1c levels decreased from 8.5% to 7.2% in the intervention group ($p < 0.05$), no significant changes were observed in the control group, indicating a positive effect of the programme on adherence and HbA1c control. The community-based diabetes management programme demonstrated effectiveness in improving HbA1c levels among participants when compared to usual care. Further research should explore scalability and cost-effectiveness of such interventions, as well as their impact over longer periods. Diabetes Management, Community-Based Interventions, HbA1c Control, South Africa Treatment effect was estimated with $\text{text}\{ \text{logit} \}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords:

Methodological:

Theoretical:

Intervention:

Outcome:

Public

Epidemiology: Diabetes Management

Geographic:

Randomized

Health

Community-Based

HbA1c

Health:

Controlled

Adherence

Sub-Saharan

Trial

Equity

Programme

Control

Rates

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