



Design and Implementation of an Anti-VEGF Eye Drop Delivery System for Diabetic Retinopathy in Rural Mozambique Over Two Years

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Abstract

Diabetic retinopathy is a common complication of diabetes that can lead to vision loss in rural Mozambique where access to specialized care is limited. A longitudinal study involving 200 participants who received a novel anti-VEGF eye drop regimen. Data collection included visual acuity tests and patient-reported outcomes at baseline, six months, and one year post-intervention. Visual acuity improved by an average of 15% in the first year with no significant adverse effects reported among participants. The anti-VEGF eye drop system showed promise for improving diabetic retinopathy outcomes in rural Mozambique, though further research is needed to validate these findings. Continue monitoring long-term efficacy and explore integration into existing healthcare systems. Engage with local communities to ensure patient compliance and sustainability of the programme. Diabetic Retinopathy, Anti-VEGF Eye Drops, Rural Mozambique, Longitudinal Study 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: African, Geographic, Retinal, Ophthalmology, Microvascular, Diabetic, Follow-up

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