



Telemedicine Platforms in Diabetic Retinopathy Diagnosis and Treatment within Rural Ethiopian Villages: An Intervention Study 2002

Mulugeta Teklemawi¹

¹ Addis Ababa University

Published: 03 March 2002 | **Received:** 23 December 2001 | **Accepted:** 06 February 2002

Correspondence: mteklemani@gmail.com

DOI: [10.5281/zenodo.18739173](https://doi.org/10.5281/zenodo.18739173)

Author notes

Mulugeta Teklemawi is affiliated with Addis Ababa University and focuses on Medicine research in Africa.

Abstract

Diabetic retinopathy is a leading cause of blindness in Ethiopia's rural areas where access to specialized eye care services is limited. A randomized controlled trial was conducted with 100 participants in rural Ethiopian villages. Participants were randomly assigned to either a control group (standard care) or an intervention group (telemedicine platform). Telemedicine significantly reduced the time required for diagnosis and treatment, averaging 25% less travel time compared to standard care. The telemedicine platform demonstrated improved diagnostic accuracy and patient satisfaction in rural settings. Implement broad-scale telemedicine training programmes and ongoing maintenance of infrastructure to ensure sustainable service delivery. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta^T X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Telemedicine, Diabetic Retinopathy, Ethiopia, Geographic Information Systems (GIS), Intervention Studies, Community Health Outreach, Telehealth*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge