



# Biomedical Innovations in Diagnostic Devices for Resource-Limited Settings in Uganda, 2009

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## Abstract

Uganda faces challenges in accessing affordable and reliable diagnostic devices for healthcare providers in resource-limited settings. In-depth interviews with researchers involved in the development of diagnostic devices were conducted. Data collection focused on qualitative insights into innovation processes and outcomes. Participants reported that the new diagnostic device reduced healthcare costs by 5 per test, achieving a success rate of 90% in field trials compared to traditional methods. The study underscores the

$$Y_{it} = \beta_0 + \beta_1 X_{it} + u_i + \varepsilon_{it}$$

with robustness checked using heteroskedasticity-consistent errors.

**Keywords:** *African Geography, Biomedical Engineering, Diagnostic Devices, Microfluidics, Resource Allocation, Sustainability Models, Third-World Health Systems*

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