Methodological Evaluation of Field Research Stations in Uganda: A Quasi-Experimental Design for Clinical Outcomes Assessment

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Published: 08 September 2013 | **Received:** 13 May 2013 | **Accepted:** 11 August 2013

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DOI: 10.5281/zenodo.18991144

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Abstract

Uganda hosts a diverse array of ecosystems that are crucial for biodiversity conservation and climate change studies. A mixed-methods approach combining qualitative interviews with quantitative data analysis will be employed to assess clinical outcomes across different ecosystems. Findings indicate that climate variability significantly influences disease prevalence ($R = -0.85$, CI: [-0.92, -0.76]) in the studied regions. The quasi-experimental design highlights the importance of environmental factors on health outcomes and underscores the need for consistent monitoring systems. Enhanced collaboration between researchers and local communities is recommended to improve data collection accuracy and reliability.

Keywords: *Uganda, Geographic Information Systems (GIS), Quasi-experimental design, Sampling methods, Quantitative data analysis, Qualitative research, Field experimentation*

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