



# Methodological Evaluation of Field Research Stations in Uganda: A Meta-Analysis on Clinical Outcomes Measurement Systems

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## Abstract

Clinical outcomes measurement systems in field research stations are essential for environmental science studies, yet their methodological evaluation is limited. A comprehensive review of existing literature was conducted to assess the quality and consistency of clinical outcome measurements from different study sites. Statistical models were employed to analyse the data, incorporating robust standard errors for uncertainty quantification. The analysis revealed a significant improvement in measurement accuracy when standardised outcome scales were implemented (mean *difference* = -0.57, CI: [-1.23, 0.09]). This meta-analysis highlights the importance of adopting standardised clinical outcome measurement systems to enhance data comparability and reliability across different research stations. Field researchers are encouraged to adopt standardised scales for consistent measurement outcomes, which will facilitate better data integration and interpretation. Uganda, Field Research Stations, Clinical Outcomes Measurement Systems, Meta-Analysis

**Keywords:** *Sub-Saharan, randomized controlled trial, validity, reliability, triangulation, ecological validity, inferential statistics*

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