



# Accreditation and Performance Evolution in Ugandan Hospitals: A Longitudinal Study

Orika Namugenyi<sup>1,2</sup>, Mukasa Kato<sup>3</sup>

<sup>1</sup> Gulu University

<sup>2</sup> Department of Internal Medicine, Makerere University Business School (MUBS)

<sup>3</sup> Department of Clinical Research, Gulu University

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**Correspondence:** [onamugenyi@outlook.com](mailto:onamugenyi@outlook.com)

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## Author notes

*Orika Namugenyi is affiliated with Gulu University and focuses on Medicine research in Africa.*

*Mukasa Kato is affiliated with Department of Clinical Research, Gulu University and focuses on Medicine research in Africa.*

## Abstract

This study examines the impact of hospital accreditation on healthcare system performance in Ugandan hospitals over a decade. Data were collected through structured interviews with key hospital staff, analysis of public health records, and a Likert scale survey among healthcare providers. Statistical models included linear regression for predicting improvement trends in accreditation scores over time. There was a significant increase ( $p < 0.05$ ) in average patient satisfaction ratings from baseline to the end of the study period, indicating improvements in service quality and staff engagement with accreditation initiatives. Accreditation efforts have led to measurable improvements in hospital performance, particularly in enhancing patient care outcomes and operational efficiencies. Further research should explore the sustainability of these improvements beyond initial accreditation periods and investigate potential areas for future intervention based on identified success factors. Treatment effect was estimated with  $\text{text}\{logit\}(\pi) = \beta_0 + \beta^T p X$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *Longitudinal Analysis, Hospital Accreditation, Healthcare Systems, Quality Improvement, Institutional Development, Comparative Study, Quantitative Research*

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