

## REVIEWER'S REPORT

Manuscript No.: **IJAR-53527**

Date: 25-08-2025

**Title: SOCIO-ECONOMIC SIGNIFICANCE OF BRUCELLOSIS IN POST CONFLICT NORTHERN UGANDA**

### Recommendation:

Accept as it is .....

**Accept after minor revision**.....

Accept after major revision .....

Do not accept (*Reasons below*) .....

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality		✓		
Clarity		✓		
Significance	✓			

Reviewer Name: Dr.P.Manochithra

Date: 25-08-2025

### Reviewer's Comment for Publication.

*(To be published with the manuscript in the journal)*

*The reviewer is requested to provide a brief comment (3-4 lines) highlighting the significance, strengths, or key insights of the manuscript. This comment will be Displayed in the journal publication alongside with the reviewers name.*

The manuscript provides a significant contribution by highlighting the dual socio-economic burden of brucellosis in post-conflict Northern Uganda. Its integration of human health impacts with livestock productivity losses adds originality and practical relevance. The findings underscore the urgent need for public health interventions and livestock disease management strategies, making it a valuable addition to the field of zoonotic disease research.

### Detailed Reviewer's Report

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**Recommendation:**

☒ Accept after minor revision

**Evaluation:**

- **Originality:** *Good*

The paper addresses an underexplored issue by linking human health and livestock productivity impacts of brucellosis in Uganda, providing region-specific insights that are valuable for policymakers and researchers.

- **Technical Quality:** *Good*

The methodology is sound, employing both primary and secondary data with disability-adjusted life years (DALYs) and economic loss models. However, the study would benefit from clearer justification of assumptions (e.g., disability weights, exclusion of fatalities in DALY calculation).

- **Clarity:** *Good*

The paper is generally well-structured, with clear sections on methods, results, and discussion. Nonetheless, certain parts (especially results tables and economic models) could be presented more concisely with better formatting for readability.

- **Significance:** *Excellent*

The study demonstrates strong practical relevance by quantifying both household-level economic losses and public health implications, making it useful for stakeholders in health, veterinary services, and policy planning.

**Strengths:**

1. Addresses a neglected zoonotic disease in a post-conflict setting, filling an important research gap.
2. Combines socio-economic, epidemiological, and health metrics, providing a holistic perspective.
3. Offers practical policy implications for disease control and poverty alleviation.

**Weaknesses & Suggestions for Improvement:**

1. **DALY Estimation** – Since mortality data was unavailable, results may underestimate the true burden. Authors should acknowledge this limitation more explicitly.
2. **Economic Analysis** – The economic loss models are strong but could be improved by discussing sensitivity to market price fluctuations.
3. **Policy Recommendations** – While the conclusion emphasizes awareness and control, the paper could strengthen its impact by proposing specific community-level interventions or government strategies.
4. **Editing** – Minor language corrections and reduction of repetitive statements in the discussion section would improve readability.