

REVIEWER'S REPORT

Manuscript No.: IJAR- 58382

Title: PRACTICE OF BIOSECURITY MEASURES IN POULTRY FARMS IN THE MUNICIPALITY OF MAN, IN WESTERN IVORY COAST.

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: **ANAPANA GOPAL**

Reviewer's Comment for Publication.

General Comments

The manuscript investigates the implementation of biosecurity measures on poultry farms in the municipality of Man, Côte d'Ivoire. The study addresses an important issue considering the economic significance of the poultry industry and the continuing threat of avian diseases. The findings provide useful baseline information regarding farm isolation, movement control, and sanitation practices, which may contribute to improving poultry health management and disease prevention.

The manuscript is generally organized in a logical manner. However, several methodological limitations, insufficient statistical interpretation, limited discussion, and language issues need to be addressed before the manuscript is suitable for publication. Therefore, **minor revision** is recommended.

Minor Comments

1. Novelty should be better emphasized

The introduction adequately explains the importance of biosecurity but does not clearly identify the knowledge gap.

The authors should clarify:

- What makes this study different from previous surveys in Côte d'Ivoire or other African countries.
- How these findings contribute to improving poultry disease prevention strategies.

2. Sampling methodology

The study used **convenience sampling**, which introduces selection bias.

The authors should discuss:

- limitations of convenience sampling,
- possible effects on representativeness,
- generalizability of the results.

A justification for selecting this sampling method should also be provided.

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3. Questionnaire validation

The manuscript does not describe the questionnaire development.

Please specify:

- whether the questionnaire was pre-tested,
- validity and reliability assessment,
- whether it was adapted from previous studies,
- interview language,
- interviewer training.

4. Statistical analysis

Only descriptive statistics and Chi-square tests were performed.

The authors should explain:

- why Chi-square analysis was selected,
- assumptions of the test,
- whether multivariate analysis could identify factors associated with poor biosecurity practices.

Confidence intervals would strengthen the findings.

5. Discussion requires deeper analysis

The Discussion mainly compares findings with a few previous reports.

The authors should critically discuss:

- socioeconomic reasons for poor compliance,
- farmer awareness,
- education level,
- economic constraints,
- government support,
- disease transmission risks.

6. Recommendations should be more practical

The conclusion recommends improving awareness but lacks practical strategies.

Consider including recommendations on:

- farmer training programs,
- veterinary extension services,
- government policy,
- routine biosecurity audits,
- certification systems,
- financial incentives for biosecurity improvements.

7. Public health perspective

Since biosecurity is closely linked to zoonotic disease prevention, the manuscript should better discuss:

- One Health approach,
- antimicrobial resistance,
- avian influenza preparedness,
- occupational health risks.

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Minor Comments

Abstract

- Mention the study design more clearly.
- Include the major practical implication.
- Avoid repeating numerical findings.

Keywords

Consider adding:

- Poultry health
- Avian influenza
- One Health
- Disease prevention
- Farm management

Introduction

The introduction is appropriate but can be strengthened by including more recent literature on poultry biosecurity and emerging infectious diseases.

Materials and Methods

Please provide additional information regarding:

- ethical approval,
- informed consent,
- questionnaire structure,
- duration of data collection,
- inclusion and exclusion criteria.

Results

Several tables present percentages only.

Consider including:

- confidence intervals,
- graphical summaries,
- comparison between intensive and semi-intensive farms.

Figures

Improve the quality and resolution of Figures 1 and 2.

Provide more informative figure captions.

Language

The manuscript requires professional English editing.

Numerous grammatical errors, awkward sentence construction, punctuation inconsistencies, and tense usage should be corrected throughout the manuscript.

References

Please verify:

- formatting consistency,
- journal abbreviations,
- citation style,
- punctuation,

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- DOI inclusion wherever available.

Strengths

- Relevant topic in poultry health and disease prevention.
- Practical field-based survey.
- Addresses an important public health issue.
- Clearly organized manuscript.
- Useful baseline information for Côte d'Ivoire.
- Appropriate use of tables for presenting results.

Weaknesses

- Convenience sampling limits representativeness.
- Questionnaire validation is not described.
- Statistical analysis is relatively basic.
- Discussion lacks critical interpretation.
- Practical recommendations are limited.
- English language requires considerable improvement.

Recommendation

Minor Revision