



REVIEWER'S REPORT

Manuscript No.: IJAR-57719

Title: Community Perception of Intense Rainfall Associated with Climate Change and the Emergence of Dengue with Warning Signs in Ecuador.

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 community perception regarding intense rainfall associated with climate change and its relationship with dengue with warning signs in Ecuador. The topic is timely and relevant because climate variability and vector-borne diseases are important public health concerns, especially in tropical regions. The study attempts to explore awareness, perceptions, and preventive understanding among nursing students regarding dengue and climate-related environmental changes.

The manuscript demonstrates social and public health relevance and includes survey-based community perception data. However, the paper requires substantial improvements in methodology, language quality, statistical rigor, interpretation of findings, and overall scientific presentation before it can be considered for publication.

Content and Originality

The study addresses an important issue linking climate change, heavy rainfall, and dengue outbreaks in Ecuador. The focus on community perception and awareness among university students adds local public health value.

Strengths:

Relevant public health topic.

Inclusion of climate change and vector-borne disease linkage.

Use of primary survey data.

Regional relevance for Ecuador and tropical disease management.

Concerns:

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1. The novelty of the study is not clearly highlighted.
2. The manuscript largely describes survey responses without deeper analytical interpretation.
3. Research objectives and hypotheses are not sufficiently precise.
4. The paper mainly focuses on perceptions rather than establishing measurable epidemiological relationships.
5. The title suggests a broader community analysis, but the sample is limited only to nursing students from a single university.

The authors should better explain the scientific contribution and justify why this population was selected.

Technical Quality

The manuscript uses a quantitative, descriptive, observational, and cross-sectional design with survey-based data collection.

Positive aspects:

Ethical consideration through informed consent is mentioned.

Survey methodology is explained.

Data are presented in tables with percentages and frequencies.

minor technical issues:

1. Statistical analysis is very limited:

Only descriptive statistics are used.

No inferential statistical tests are performed.

No correlation or association analysis between climate perception and dengue awareness.

2. Sample concerns:

The study sample is relatively small (119 participants).

Sampling technique is not adequately described.

External validity is weak because participants belong to one academic program.

3. Methodological inconsistencies:

The manuscript alternates between 10-question and 12-question survey descriptions.

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Some statements mention rural communities, while the actual participants are university students.

4. Results interpretation:

Many interpretations are subjective and repetitive.

The discussion section lacks comparison with previous scientific studies.

5. Tables and formatting:

Several tables need better formatting and numbering consistency.

Some percentages in the discussion text do not exactly match the table values.

6. The study lacks:

Reliability analysis (Cronbach's alpha).

Validation of the questionnaire.

Detailed statistical methodology.

Language and Presentation

The manuscript requires minor English language revision. Numerous grammatical and typographical errors are present throughout the document.

Examples include:

Inconsistent sentence structure.

Repetitive wording.

Mixed use of Spanish and English formatting styles.

Missing spaces and punctuation errors.

Informal expressions in the analysis sections.

Examples:

“Análisis:Serefleja” lacks spacing and proper formatting.

“Los datos obtenido” should be “Los datos obtenidos.”

Additional concerns:

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The discussion sections are excessively narrative.

Some analyses sound opinion-based rather than scientific.

Figure and table captions require standardization.

Professional language editing is strongly recommended.

Structure and Organization

The manuscript follows a conventional structure:

Abstract

Introduction

Materials and Methods

Results and Discussion

Conclusions

References

However, several organizational issues are evident.

Strengths:

Logical section arrangement.

Conclusions summarize minor findings adequately.

Concerns:

1. The theoretical framework section is empty.
2. Results and discussion are not properly separated.
3. Repetition occurs across multiple analysis paragraphs.
4. Several interpretations simply restate table values without deeper discussion.
5. The manuscript could be significantly condensed for clarity and scientific focus.

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The authors should improve flow, remove redundancy, and strengthen the discussion with literature comparisons.

References and Citations

The manuscript cites relevant literature on dengue, climate change, and vector ecology. The inclusion of recent references is appreciated.

Strengths:

Use of recent studies from 2020–2024.

Inclusion of international journals such as The Lancet and Nature Communications.

Concerns:

1. Citation formatting is inconsistent.
2. Some references are incomplete or improperly formatted.
3. Several URLs are directly inserted instead of using proper reference style.
4. Duplicate references related to Ecuador time-series analysis appear.
5. DOI formatting requires correction.

The reference section should be revised according to journal guidelines.

Overall Recommendation

The manuscript addresses an important public health and environmental issue and provides useful preliminary insights into community perceptions regarding climate change and dengue in Ecuador.

However, the manuscript currently has significant limitations in:

Methodological rigor,

Statistical analysis,

Scientific interpretation,

Language quality,

Structural consistency,

and presentation standards.

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Extensive revision is necessary to improve the scientific quality and publication suitability of the work.

Final Decision

minor Revision