

REVIEWER'S REPORT

Manuscript No.: IJAR-54025

Date: 27-09-2025

Title: Empirical Distribution Function of High Blood Pressure Cases basing on Temporal, Anthropometric, and Metabolic Features at Korhogo Regional Hospital.

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.Amina

Reviewer's Comment for Publication

This manuscript presents a retrospective analysis of hypertension cases at Korhogo Regional Hospital, Côte d'Ivoire (2016–2021), exploring temporal trends and associations with anthropometric and metabolic factors using empirical distribution functions and regression modeling. The topic is relevant to public health and provides valuable regional data on hypertension trends.

Strengths

- **Original Contribution:** Few studies document the temporal evolution of hypertension in Côte d'Ivoire while incorporating statistical modeling and empirical distribution functions.
- **Robust Statistical Approach:** Application of descriptive statistics, normality tests, Tukey multiple comparisons, and linear regression demonstrates a solid methodological framework.
- **Public Health Relevance:** The finding that aging and blood glucose levels are key correlates of rising hypertension rates underscores the need for targeted screening and intervention.

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Suggestions for Minor Revision

1. Language and Grammar

- Revise for readability and correct grammar (e.g., “structuredand” → “structured and,” “hypertension troubles cases” → “hypertension cases”).
- Ensure consistent tense, especially in the Results section.

2. Methods Clarification

- Provide more detail on patient selection criteria and handling of missing data.
- Clarify the rationale for including/excluding patients with a family history of hypertension and explain the coding of qualitative variables (e.g., sedentary lifestyle).

3. Statistical Details

- Double-check reported p-values and confidence intervals for formatting (use consistent decimal separators).
- Clarify the definition of “empirical distribution function” for readers unfamiliar with advanced statistics and simplify overly technical explanations (lines 80–92).

4. Figures and Tables

- Ensure all figures (e.g., Figures 1–3) and tables (Table I–III) are clearly labeled, high-resolution, and referenced properly in the text.

5. Discussion

- Expand on potential confounding factors (dietary habits, socioeconomic status) that may influence hypertension prevalence.
- Include limitations such as retrospective design, single-center scope, and reliance on recorded data.

With these minor revisions, the study will offer a valuable and methodologically sound contribution to understanding the dynamics of hypertension in West Africa and inform public health strategies for early detection and management.