

## REVIEWER'S REPORT

Manuscript No.: IJAR-53841

Date: 15/09/2025

Title: Analysis of Glycemic Levels and Associated Factors in Patients with Type 2 Diabetes

### 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. S. K. Nath

Date: 16/09/2025

### Reviewer's Comment for Publication:

The research effort presents a valuable collection of clinical and biochemical data pertinent to Type 2 Diabetes patients. Its comprehensive dataset can contribute to understanding disease patterns. However, for scientific rigor, improvements are necessary in methodological transparency, data presentation, linguistic clarity, and statistical analysis. Addressing these areas will significantly enhance the credibility and readability of the paper.

### Reviewer's Comment / Report

#### Strengths

- Comprehensive Data Collection:** The study gathers detailed demographic, clinical, and biochemical data, including glycemic levels, lipid profiles, blood pressure, and lifestyle factors, providing a holistic view of patients' health status.
- Use of Multiple Parameters:** Evaluation of various parameters like BMI, WHR, HbA1c, lipid profile, and clinical history enhances the robustness of the analysis.
- Large Sample Size:** The inclusion of numerous patient records (at least 110 as per the pages) strengthens the statistical power and the reliability of findings.
- Inclusion of Patient Histories:** Family history, hypertension, IHD, stroke, and PVD information are considered, adding depth to the analysis of associated risk factors.

#### Weaknesses and Areas for Improvement

- Lack of Methodology Details:** The pages do not specify the study design, inclusion/exclusion criteria, sampling method, or statistical techniques employed, which are critical for reproducibility and validity assessment.
- Data Presentation and Clarity:** The data tables are cluttered, with abbreviations and symbols that might not be universally understood. More explanatory legends and consistent formatting are recommended.
- Typographical and Grammatical Errors:** Usage of inconsistent abbreviations (e.g., "simhachalam" vs. "Simhachalam") and symbols (+, -) without clear definitions. The pages contain some typographical errors and spellings, such as "Viral" misspelled as "Vir al" or garbled text on pages like 98 and 99, which may hinder comprehension.
- Language and Formatting:** The text contains parts in regional scripts or non-English characters, which may affect readability for an international audience. Structural organization is lacking; a clear separation of sections such as Introduction, Methodology, Results, and Discussion is advisable.
- Analysis and Interpretation:** The report does not explicitly analyze correlations or causations between variables. No statistical significance indicators (p-values, confidence intervals) are presented, limiting the strength of inferred associations.
- Absence of Ethical Considerations:** There is no mention of ethical approval or informed consent procedures.

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### *Recommendations for the Author*

1. **Methodology Section:** Include details about study design (cross-sectional, longitudinal, etc.). Specify inclusion/exclusion criteria, sampling methods, and data collection procedures. Describe the statistical tools used for analysis.
2. **Data Presentation:** Use clear, well-formatted tables with legends explaining abbreviations. Clarify the meaning of symbols (+, -, R, etc.) within the tables or in a footnote.
3. **Language and Grammar:** Proofread the manuscript for typographical and grammatical errors. Standardize names and terminology throughout the document. Remove or translate regional script sections if targeting an international journal.
4. **Content Structure:** Organize the paper into standard sections: Introduction, Methods, Results, Discussion, Conclusion. Include an abstract summarizing key findings.
5. **Analysis and Discussion:** Incorporate statistical analysis results, including p-values and confidence intervals. Interpret the significance of findings, especially correlations between glycemic control and other parameters.
6. **Ethical Compliance:** Mention ethical approval, informed consent, and data confidentiality measures.
7. **Figures and Visuals:** Consider adding charts or graphs to visualize key data trends.