

## REVIEWER'S REPORT

Manuscript No.: IJAR-55471

Title: Pre-Analytical Errors in Sample Collection and Their Impact on Laboratory Results

### 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:** 27.12.25

### *Detailed Reviewer's Report*

#### Strengths of the Study:

- The study addresses a highly relevant area in laboratory medicine, emphasizing the significance of pre-analytical errors on laboratory accuracy and patient safety.
- It provides a clear overview of various common pre-analytical errors associated with sample collection.
- The methodology, involving data collection from a tertiary care hospital with a sample size of 200, is appropriate for an observational assessment.
- The study presents quantitative data on the frequency of errors, enabling an understanding of predominant issues such as hemolysis.
- The discussion appropriately correlates findings with existing literature, reinforcing the importance of training and adherence to protocols.
- The inclusion of practical recommendations for reducing errors enhances the study's applicability.

#### Weaknesses of the Study:

- The sample size, although adequate, could be expanded for more generalizable conclusions across different settings.
- Limited details are provided regarding the statistical analysis; reliance solely on percentages may overlook nuances in data interpretation.
- The study lacks detailed discussion on potential confounding factors influencing error rates.
- No ethical approval statement or mention of informed consent procedures is provided, which is essential even for observational studies.
- Some sections, especially the discussion, are brief and could benefit from deeper analysis of findings.
- The presentation of data could be improved with more detailed tables, figures, and clearer formatting.
- References are limited and could be expanded to include more recent studies on pre-analytical errors.

#### Reviewer Comments:

- **Title and Abstract:** The title succinctly captures the focus of the paper. However, an abstract summarizing key findings, methodology, and implications would enhance clarity and reader engagement.

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- **Introduction and Objectives:** The introduction clearly highlights the importance of the pre-analytical phase and its impact on patient safety. The stated aims and objectives are appropriate but could be further clarified with specific hypotheses or research questions.
- **Methodology:** The methodological approach is suitable for an observational study. Nonetheless, more details are needed regarding data collection procedures, observer training, and whether standard operating procedures were followed. Details on the statistical analysis beyond percentages would strengthen the validity of conclusions.
- **Results and Discussion:** Results are clearly presented with appropriate tables, but inclusion of additional statistical measures such as confidence intervals or p-values would improve rigor. The discussion appropriately compares findings with other studies but should delve deeper into causal factors, limitations, and potential biases.
- **Conclusion and Implications:** The conclusion effectively summarizes key findings and emphasizes the importance of training and standard protocols. Recommendations are practical; however, further discussion on implementing quality improvement initiatives is warranted.
- **Ethical Considerations:** The manuscript does not mention whether ethical approval was obtained or whether informed consent was necessary this is essential even in observational studies involving patient samples.
- **Language and Formatting:** Overall, the manuscript is clearly written with minimal grammatical errors. Minor typographical issues and formatting inconsistencies should be addressed for professionalism.
- **Figures, Tables, and References:** Figures and tables are appropriate, but clarity can be improved with more detailed legends. The references are relevant but limited; expanding to include recent literature would strengthen the manuscript.