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REVIEWER'S REPORT

Manuscript No.: IJAR-50870

Date: 02-04-2025

Title: A comparative study of cognitive function, pre-operative and post-operative, in patients undergoing valvular heart surgery

Recommendation:

- Accept as it is.....**YES**.....
- Accept after minor revision.....
- Accept after major revision
- Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality	√			
Techn. Quality		√		
Clarity		√		
Significance			√	

Reviewer's Name: Dr Aamina

Reviewer's Decision about Paper: **Recommended for Publication.**

Comments (*Use additional pages, if required*)

Reviewer's Comment / Report

General Assessment:

The introduction provides a well-structured and informative overview of cognitive function changes in patients undergoing valvular heart surgery. It effectively establishes the importance of studying post-operative cognitive dysfunction (POCD) and its impact on patient outcomes. The discussion is supported by relevant statistical data and references, adding credibility to the research.

Clarity and Organization:

The content is logically organized, with a clear progression from defining cognitive function and dysfunction to discussing POCD in the context of cardiac surgery. The inclusion of historical

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and epidemiological perspectives strengthens the background information. The writing style is concise and professional, suitable for an academic audience.

Relevance and Contribution:

This study addresses an important and underexplored area, particularly concerning the lack of specific data on POCD in the Indian population. The inclusion of demographic trends, surgical advancements, and risk profiles adds depth to the discussion and highlights the significance of studying POCD in the evolving landscape of cardiac surgery.

Statistical and Literature Support:

The introduction is well-supported by global data, including statistics from the National Cardiac Surgery Audit (UCL, 2012). The inclusion of numerical trends enhances the reliability of the study's premise and demonstrates awareness of the changing patient demographics and surgical complexities over time.

Conclusion:

The introduction successfully lays the foundation for the study by contextualizing the significance of POCD in cardiac surgery, especially in valvular heart procedures. The content is well-researched, clearly articulated, and effectively highlights the need for further investigation into cognitive outcomes following surgery.