REVIEWER'S REPORT

Manuscript No.: IJAR-53292   Date: 12/08/2025

Title: Anesthetic management of high grade butterfly glioma of the corpus callosum - A case report

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: 13/08/2025

Reviewer's Comment for Publication:
This case report effectively underscores the complexities of anesthetic management in patients with butterfly glioma involving the corpus callosum. It reinforces the need for meticulous preoperative assessment, choice of appropriate anesthetic agents like TIVA, vigilant intraoperative neuro-monitoring, and close interdisciplinary collaboration. While limited by its scope as a single case, it provides valuable practical guidance and highlights areas for future research to improve perioperative care in such challenging neuro-oncological cases.

Reviewer's Comment / Report

Strengths:
- **Focused Case Detail:** Provides thorough descriptions of preoperative assessment, intraoperative management, and postoperative care, offering practical insights for anesthesiologists managing such complex cases.
- **Emphasis on Multimodal Strategies:** Discusses the importance of neuro-monitoring, hemodynamic stability, ICP control, and tailored anesthetic techniques, reflecting current best practices.
- **Integration with Existing Literature:** Cites relevant studies and guidelines, grounding the discussion within established neuroanesthetic principles.
- **Clear Objective:** Highlights the unique challenges of butterfly glioma and the critical role of anesthesia in optimizing surgical and neurological outcomes.
- **Inclusion of Postoperative Considerations:** Addresses postoperative monitoring and potential complications, emphasizing the importance of comprehensive care.

Weaknesses:
- **Limited Generalizability:** As a single case report, its findings and recommendations are not universally applicable without further validation through larger studies.
- **Lack of Quantitative Data:** The report does not include specific intraoperative parameters (e.g., ICP measurements, blood loss, neurophysiological monitoring data) that could strengthen evidence for the chosen management strategies.
- **Limited Discussion on Outcomes:** Postoperative neurological and functional outcomes are briefly mentioned, but detailed follow-up data would improve understanding of long-term prognosis.
- **Potential Bias:** As a case report, inherent selection bias exists; more extensive studies are needed to formulate standardized protocols.
- **Absence of Comparative Analysis:** No comparison with alternative anesthetic or surgical approaches limits insight into the relative efficacy of different strategies.