



ISSN NO. 2320-5407

ISSN: 2320-5407

International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

www.journalijar.com

REVIEWER'S REPORT

Manuscript No.: IJAR-50587

Date: 11-03-2025

Title: The Role of Sugammadex in Thoracic Surgery: A Comprehensive Review

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

The article, *The Role of Sugammadex in Thoracic Surgery: A Comprehensive Review*, provides a well-structured and in-depth analysis of the significance of sugammadex in anesthesia management for thoracic surgical procedures. The abstract effectively encapsulates the key themes of the review, clearly outlining the clinical applications, mechanism of action, and comparative advantages of sugammadex over traditional reversal agents. The emphasis on patient safety and enhanced recovery aligns with current trends in anesthetic practice.

The introduction provides a strong contextual foundation, linking the challenges of postoperative complications, particularly residual neuromuscular blockade (RNMB), to the necessity for effective reversal agents. The discussion is well-supported by references to minimally invasive surgical techniques like VATS, highlighting the need for precise anesthetic management in thoracic procedures.

The section on the mechanism of action presents a clear and concise explanation of sugammadex's pharmacological properties. The comparison with neostigmine further reinforces the unique benefits of sugammadex, particularly its direct encapsulation of neuromuscular blocking agents, which ensures rapid and predictable recovery. The inclusion of figures to illustrate these mechanisms enhances comprehension and supports the discussion effectively.

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The clinical applications segment is particularly well-developed, offering case-based insights into sugammadex's role in specific thoracic procedures. The case study on thymectomy in myasthenia gravis provides practical evidence of sugammadex's effectiveness in complex neuromuscular conditions, with a well-documented example demonstrating rapid neuromuscular recovery. Similarly, the discussion on lobectomy for lung tumors highlights the importance of deep neuromuscular blockade and the advantages of sugammadex in ensuring smooth postoperative outcomes.

Overall, the article is well-researched, clearly structured, and effectively communicates the clinical relevance of sugammadex in thoracic surgery. The integration of case studies, figures, and comparative analysis adds depth to the discussion, making it a valuable contribution to the field of anesthetic management in thoracic procedures.
