

## REVIEWER'S REPORT

Manuscript No.: **IJAR-53288**

Date: 14-08-2025

**Title: Attention-Deficit Hyperactivity and Anxiety Disorder in a Child with Repeated Exposure to General Anesthesia**

### 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 Name: Dr Aamina

### Reviewer's Comment for Publication.

#### General Overview

The paper presents a clinically significant and timely case report highlighting the potential link between repeated general anesthesia (GA) exposure in early childhood and the subsequent development of neuropsychiatric conditions, specifically ADHD and anxiety disorders. The subject matter is highly relevant, given the ongoing discourse on pediatric anesthesia safety and its long-term neurodevelopmental implications. The integration of a real-world clinical case with a review of existing literature enhances the academic and clinical value of the work.

#### Abstract Evaluation

The abstract clearly outlines the background rationale, case details, methodology for literature review, and key conclusions. It succinctly captures the clinical presentation, relevant medical history, diagnostic process, and therapeutic response, while also situating the case within the broader research context. The focus on concurrent ADHD and anxiety in the same patient strengthens the novelty of the report. The keywords are well chosen, aiding discoverability in academic databases.

#### Introduction Evaluation

The introduction establishes the medical necessity of GA in pediatric care while acknowledging ongoing concerns about its safety during early neurodevelopmental stages. The explanation of GA's interaction with neurotransmitter systems and its potential influence during periods of synaptogenesis is scientifically sound and grounded in neurodevelopmental theory. The discussion of uncertainty regarding causal relationships between GA and neuropsychiatric outcomes provides a balanced foundation for presenting the case.

#### Scientific and Clinical Relevance

This report addresses an important gap in the literature—combined ADHD and anxiety emergence

# International Journal of Advanced Research

**Publisher's Name: Jana Publication and Research LLP**

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following multiple early-life GA exposures. The inclusion of both clinical presentation and literature synthesis broadens the relevance, making the work valuable to pediatricians, anesthesiologists, psychiatrists, and neurodevelopmental researchers. By emphasizing the potential need for long-term neuropsychiatric monitoring in similar cases, the report underscores its public health implications.

### **Overall Assessment**

The manuscript effectively blends case-based evidence with a review of existing studies, offering both clinical insight and a scholarly contribution to the debate on pediatric anesthesia safety. It is a coherent, relevant, and well-contextualized work within the domain of pediatric neurodevelopment.