

## REVIEWER'S REPORT

Manuscript No.: IJAR-51855

Date: 24/5/2025

### Title:

**DIFFERENTIAL ANALYSIS OF GENE EXPRESSION IN SEVERELY SICK COVID-19 PATIENTS.**

### Recommendation:

Accept as it is .....

**Accept after minor revision.....**

Accept after major revision .....

Do not accept (*Reasons below*) .....

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

Reviewer Name: Dr.Sumathi

Date: 24/5/2025

### Reviewer's Comment for Publication.

*(To be published with the manuscript in the journal)*

*The reviewer is requested to provide a brief comment (3-4 lines) highlighting the significance, strengths, or key insights of the manuscript. This comment will be Displayed in the journal publication alongside with the reviewers name.*

Gene expression is the process by which the instructions encoded in a gene are used to produce a functional product, usually a protein or non coding RNA.

### *Detailed Reviewer's Report*

- 1. Gene expression is the process by which the information encoded in a gene is turned into a function. The mostly occurs via the transcription of RNA molecules that code for proteins or non coding RNA molecules that serve other functions.**

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- 2. Certain underlying medical conditions were associated with an increased risk for severe COVID-19 illness in adults.**
- 3. Having multiple conditions was also associated with severe COVID-19 illness.**
- 4. Obesity, diabetes with complications, and anxiety and fear-related disorders had the strongest association with death.**
- 5. Differential gene expression analysis identifies genes with significantly altered expression levels between different conditions, such as different cell types, tissues, or experimental treatments.**
- 6. It is a common technique used in molecular biology to compare gene expression between groups. The goal is to pinpoint which genes are expressed at different levels between conditions, helping researchers understand how genes respond to various stimuli.**
- 7. Pictures are given good with informative.**
- 8. Flow charts of significant points and key words should be given.**
- 9. Results and discussion part should be in separate.**
- 10. Summary must be added.**
- 11. Referenes can be given an alphabetical order.**
- 12. After minor corrections can publish in your paper.**