

## REVIEWER'S REPORT

Manuscript No.: IJAR-52961

Date: 24/07/2025

**Title: High Central Venous Oxygen Saturation and Elevated Serum Lactate in Septic Shock: A Marker of Impaired Oxygen Utilization**

### 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: Sakshi Jaju

Date: 24/07/2025

### Reviewer's Comment for Publication.

#### Abstract:

The abstract clearly explains the research purpose—to check if central venous oxygen saturation (ScvO<sub>2</sub>) and lactate levels together can better guide treatment in patients with septic shock. The method, results, and conclusion are stated well.

#### Introduction:

The introduction gives a good explanation about what sepsis and septic shock are. It discusses the role of oxygen and lactate levels in identifying how well the tissues are getting oxygen. It correctly points out that a single value (like ScvO<sub>2</sub> or SaO<sub>2</sub>) may not give the full picture.

#### Material and Methods:

The study included 50 patients with septic shock in an ICU over three months. The methods are clearly explained: ScvO<sub>2</sub>, SaO<sub>2</sub>, and serum lactate were measured at different time intervals.

#### Result and Discussion:

Patients with high ScvO<sub>2</sub> (>85%) had higher lactate levels, which may indicate poor tissue oxygen use. The discussion explains that high ScvO<sub>2</sub> does not always mean good oxygen delivery, especially when lactate levels are also high. The concept of "impaired oxygen use despite normal oxygen delivery" is explained clearly.

#### Relevance and Contribution:

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This article gives practical information for doctors treating septic shock. It shows that relying on just one marker may not be enough and combining ScvO<sub>2</sub> with lactate gives a better picture of patient condition.

### Clarity and Writing:

The writing is clear, though some sentences are long and can be simplified. Grammar and structure are mostly correct, but some parts can be made more concise.

### Recommendation:

Manuscript accepted for the publication.