

## Review Form 1.6

Journal Name:	<a href="#">Journal of Pharmaceutical Research International</a>
Manuscript Number:	Ms_JPRI_75973
Title of the Manuscript:	<b>Correlation of thyroid hormones and age in predicting the outcome of critically ill surgical patients with sepsis</b>
Type of the Article	

### **General guideline for Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

<http://peerreviewcentral.com/page/manuscript-withdrawal-policy>

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### PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<b>Compulsory</b> REVISION comments	<p>The authors of this study evaluated the association between thyroid hormones and outcome in critically ill surgical patients with sepsis with consideration of age. Most of the earlier studies reported the impact of sepsis on thyroid hormones (T3, T4, and TSH). These studies reported an altered thyroid hormone with sepsis or sepsis shock (Hosney et al, 2015), SOFA score (Rain et al., 2018), APACHE II score (Aroor et al, 2021), and mortality (Adnan Tas et al, 2012). The authors of previous studies have evidenced that decreased thyroid hormones levels were predictive of mortality (Kim et al, 2018) and prognosis of sepsis (Wang et al, 2021). The authors of this study did not establish a proper hypothesis. Several modifications or explanations are needed to improve the quality of the study.</p> <p>The following comments need to be addressed.</p> <p>Title needs to be modified.</p> <p>The introduction part needs to be focused on sepsis, types of sepsis and development of hypothyroidism. Criteria for the selection of age as a risk factor in the current need proper explanation. A change in thyroid hormone production, metabolism and action depends on aging processes. Thyroid disorders were common in elderly people. How the current study differs from old studies or how it improves the knowledge on existing areas.</p> <p>The criteria for the selection of study subjects and calculation of SOFA score are required to be explained.</p> <p>Details of data on the sensitivity and detection limits of biomarkers need to be provided.</p> <p>As per statistical analysis, a P value less than 0.05 is considered as a significant but not <math>\leq 0.05</math>.</p> <p>Role of gender in prognosis of hypothyroidism in sepsis requires to be discussed.</p> <p>Whether supplementation of T3 improved the survival rate in critical illness with sepsis? If such data is available, it needs to be discussed.</p> <p>Discussion part was badly organized; you must structure them well.</p> <p>Overall, the manuscript will require quite a bit of fine editing for grammar, sentence structure, and word choice.</p>	
<b>Minor</b> REVISION comments		
<b>Optional/General</b> comments		

### PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

### Reviewer Details:

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