Reviewer's report

Title: Procalcitonin as markers of sepsis and outcome in patients with Neurotrauma a prospective observational study

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Reviewer: oluwaseun akeju

Reviewer's report:

In this manuscript, the authors assert that increased levels of procalcitonin during the course of an intensive care unit admission may be a possible marker for the diagnosis of sepsis after neurotrauma.

Major Compulsory Revisions

1. While this article is interesting and may have clinical implications. It is impossible to accurately read and opine on the hypothesis, study procedure, and statistical analysis because the grammar is significantly flawed. The authors should have this article reviewed and edited for publication in an English language journal.

2. I would suggest that the authors make sure this work complies the STROBE guidelines for reporting observational studies (Ann Intern Med. 2007;147:573-577). Also, a figure illustrating inclusion/exclusion in the study would be appropriate.

3. Statistical-Due to the issue stated earlier with regards to the grammar, an assessment of the statistical methods is difficult. It is unclear to me how group comparisons were made and reported. The authors mentioned Kruskal Wallis, Mann U Whitney, T-Test, Pearson's chi and also a Fisher's exact test in two sentences. However, they make no attempt to explicitly describe where of why these test were employed. I remain unsure if a correction was employed for multiple comparisons. The authors stated that they selected three confounding variables required for adjustment - they need to explicitly state how these confounders were chosen (i.e. P value?)

Do the authors mean multivariable logistic regression vs multivariate logistic regression?

Same for univariable vs univariate analysis?

Once again, the presentation of the data, analysis, errors in interpretation and discussion of results is difficult to interpret due to the fact that the paper was not appropriately written for an English language journal. I would suggest that the authors be encouraged to rewrite and resubmit this manuscript for an English language journal prior to any decisions.

Level of interest: An article whose findings are important to those with closely
related research interests

**Quality of written English:** Not suitable for publication unless extensively edited

**Statistical review:** Yes, but I do not feel adequately qualified to assess the statistics.

**Declaration of competing interests:**

I declare that I have no competing interests