Reviewer’s report

Title: A PROSPECTIVE STUDY OF CLINICAL CHARACTERISTICS AND OUTCOMES OF ACUTE KIDNEY INJURY IN A TERTIARY CARE CENTRE

Version: 0 Date: 28 Sep 2018

Reviewer: Josée Bouchard

Reviewer's report:

This is a single-center retrospective observational study including 422 AKI and acute on chronic kidney disease episodes in 404 patients from Singapore to assess the epidemiology, risk factors and outcomes after AKI.

Specific comments

ABSTRACT

1. The conclusion of the abstract "The association of better survival with early AKI stages suggests a strong need for early AKI detection." is not supported by the data presented.

METHODS

2. The definition used for AKI should be (i) increase in serum creatinine ≥26.5 umol/l over 48 hours and not from baseline creatinine. Otherwise, it should be included as a limitation.

3. Which creatinine was used when no baseline creatinine was available?

4. I would suggest including only one episode of AKI per patient to simplify the presentation of the results since very few patients had 2 episodes, precluding additional analyses (422 AKI and acute on chronic kidney disease episodes in 404 patients).

5. The statistical analyses are not clear, especially the multivariate analysis.

a. Should describe the tests used for continuous variables not normally distributed, if applicable.
b. Please indicate which test was used to compare survival curves (log-rank test according to the legend).

c. Additional details are required regarding the multivariate analysis, such as a priori variables included in the multivariate analysis and the p-value in the univariate analysis used to include a variable in the multivariate analysis.

d. Please also indicate the statistical software used for the analyses.

RESULTS

6. The mean baseline creatinine seems high (150 umol/l) compare to the literature.

7. Some of the variables presented in Table 2 are not presented in Table 1 and should be included.

DISCUSSION

8. Significant changes should be performed. The discussion should highlight novel results from the study, including comparisons with previous studies from Singapore. It should also focus on comparing the results from this study to other large international and Asian studies on AKI, while avoiding general statements. Similarities and differences between study design and results should be included.

9. The conclusion of the manuscript is not supported by the results presented.

Minor comments

10. For the results section, in the second paragraph after "outcomes of AKI", the sentence "AKI was associated with an increased mortality according to…” should be rewritten: AKI was associated with a decreased survival… since the results presented after are the survival and not the mortality rates.

11. The manuscript would benefit from being reviewed by a native English speaker.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

No
Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

No

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

No

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

Quality of written English
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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