Reviewer’s report

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

Version: 0 Date: 25 Sep 2018

Reviewer: Wisit Cheungpasitporn

Reviewer's report:

Major comments:

- Acute kidney injury is a heterogeneous disorder and this study includes all AKI in many settings that are different. Principal diagnosis of patient at the time of hospital admission should be included in the multivariate analysis; e.g. Cardiovascular, Hemato/Oncology, Infectious diseases, Trauma/Surgery.

- There are also concerns about lack of novelty that we would like the investigators to address if this study would bring up any new implications for clinical practice or future research studies.

- Baseline serum creatinine was defined as the latest available serum creatinine within the preceding 12 months prior to admission. How about those who lack baseline? How did you deal with these patients? It was unclearly stated. Recommend to use: The use of using SCrGFR-75, when baseline outpatient SCr was not available (suggested PMID: 26748909).

- Suggest to perform sensitivity analysis by using the minimum value of SCr as baseline: Using the minimum value of preadmission SCr as a baseline kidney function not only can detect more AKI cases, but also provides the better predictive ability for 60 day mortality (suggested PMID: 26032233).

- Please specify the reason not to use the data on urine output criteria and also discuss this as limitation. If data on urine output are available, please provide the sensitivity analysis in subgroup that have available data dividing into urine output criteria by using Actual versus ideal body weight for acute kidney injury diagnosis for Urine output criteria for AKI (suggested PMID: 25398596).

- Fluid balance is associated with mortality and diagnosis of AKI. Strongly suggest to perform sensitivity analysis adjusting fluid balance (suggested PMID: 26012379).
- No data on novel biomarkers for AKI diagnosis. Kashani K and Ronco C have also proposed Biomarkers of acute kidney injury: the pathway from discovery to clinical adoption (suggested PMID: 28076311). Please discuss in the limitation of this study or future perspective.

- The manuscript is written in adequate English, but the manuscript would likely benefit from copy edits since there are several misused and incorrect grammars (Several were listed in the minor comments below).

Minor comments
"follow up date" should be "follow-up date"
"long term risk" should be "long-term risk"
"the data of acute kidney injury: should be "the data on acute kidney injury"
"Data of patients diagnosed with AKI" should be "Data on patients diagnosed with AKI"
"in event of" should be "in the event of"
"The initiation of RRT in patients in severe AKI" should be "The initiation of RRT in patients with severe AKI"

The sentence "the weekly cost of ranged from Canadian 3,486 to 5,117 dollars" is not correct in grammar. "of ranged"

"hazard ratio for both outcomes of graft loss and death were inversely related to…"; ratio or ratios? "were" is verb for plural.

"AKI in renal transplant recipients were associated with…". "AKI" is uncountable noun, but "were" is used for plural.

"cohort of the renal transplant recipients in our study were…” is not correct in grammar.

"recent published meta-analysis"; "recent" should be "recently"

"has demonstrated has been escalating rapidly" is not correct in grammar.

There are many missing Definite Article and Indefinite Article of nouns, please check and correct throughout the manuscript.
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.

Yes

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

Yes

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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