Reviewer’s report

Title: Definition of hourly urine output influences reported incidence and staging of acute kidney injury

Version: 2 Date: 01 Nov 2019

Reviewer: Charat Thongprayoon

Reviewer's report:

1) Urine output is normalized by body weight. What type of body weight did you use to calculate urine output per kg per hour? It is worth citing or discussing the article "Actual versus ideal body weight for acute kidney injury diagnosis and classification in critically ill patients." (PMID 25398596)

2) Oliguria is an important prognostic factor for patient outcome regardless of elevated serum creatinine. Consider 1) compare C-statistic for predictive performance of UOcon vs. UOmean for mortality. 2) investigate the outcomes of patients who had discrepancy in AKI diagnosis or staging based on UOcon and UO mean. 3) what is the kappa agreement for AKI diagnosis or staging based on UOcon and UO mean. This information will guide what type of urine output we should use for AKI diagnosis and staging.

Please confirm that you have included your review in the ‘Comments to Author’ box?

As a minimum standard, please include a few sentences that outline what you think are the authors’ hypothesis/objectives, their main results, and the conclusions drawn. Your report should constructively instruct authors on how they can strengthen their paper to the point where it may be acceptable for publication, or provide detailed reasons as to why the manuscript does not fulfill our criteria for consideration. Please supply appropriate evidence using examples from the manuscript to substantiate your comments. Please break your comments into two bulleted or numbered sections: major and minor comments.

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Yes

Are you able to assess the statistics?
- Are the statistical test(s) used in this study appropriate and well described?
- Is the exact sample size (n) reported for each experimental group/condition (as a number, not a range)?
- Are the description of any error bars and probability values appropriate?
- Are all error bars defined in the corresponding figure legends?
- Has a sample size calculation been included, or a description and rationale about how sample sizes were chosen?

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Are the conclusions drawn adequately supported by the data shown?
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