Reviewer’s report

Title: Low dose of flurbiprofen axetil decrease the rate of acute kidney injury after operation: a retrospective clinical data analysis of 9915 cases

Version: 0 Date: 28 Oct 2019

Reviewer: Api Chewcharat

Reviewer's report:

Thank you for submitting your manuscript. I have some comments that need more clarification.

1. Did you adjust for the type of non-cardiac surgery? Are there any data regarding whether contrast was used before the operation or during the operation, intraoperative hypotension, complications during the operation? I am not sure whether the grade of surgery is enough to be included in your analysis.

2. What do you mean by in fluids and out fluids amount? Did the in fluids mean the total fluid that the patient got during the surgery or pre-, intra- and post-operative amounts? For the out fluids, were they calculated from total blood loss, urine output etc. Please clarify this.

3. Why did you include preoperative renal insufficiency in the analysis? Was it the ongoing AKI process? What was the baseline serum creatinine of each group?

4. How did you decide whether the patient should receive low dose of flurbiprofen axetil or no flurbiprofen? Was it because non use group contraindicated for NSAID or they got another kind of medication that might cause AKI later? Please clarify this.

5. What about postperative phase, do they receive any medications after the operation such as PPI, NSAID? Is it one of the mechanistic pathways to explain these findings? For instance, patients receiving high dose of flurbiprofen axetil tends to receive more pain killers after the operation that might cause AKI.

6. Please make sure that your continuous variables were normally distributed particularly in fluids amount and out fluids amount. For non normally distributed data, I recommend you present the value as median (IQR) in the table and transform them when you include in the multivariate logistic regression model.

There are a lot of spelling and grammatical errors that should be checked carefully and corrected throughout the manuscript.

Hope you find my comments useful.
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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Are the methods appropriate and well described to allow independent reproduction of experiments?
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Does the work include the necessary controls?
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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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No

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