Reviewer’s report

Title: Effects of Intravenous Hydration on Risk of Contrast Induced Nephropathy and In-hospital Mortality in STEMI Patients Undergoing Primary Percutaneous Coronary Intervention: A Systematic Review and Meta-analysis of Randomized Controlled Trials

Version: 0 Date: 23 Dec 2018

Reviewer: Amartya Kundu

Reviewer’s report:

The authors describe a systematic review and meta analysis evaluating the role of IV hydration during PCI for STEMI. Although only 3 RCTs were included in this meta- analysis, the authors showed a statistically significant reduction in the incidence of CIN with IV hydration. Overall, the manuscript flow is well organized and the topic is of relevance to contemporary clinical practice. Following are a few suggestions:

1. Further elaboration on the clinical importance of CIN ( risk factors, mechanisms, financial implications, etc ) is warranted in the discussion section.

2. No mention has been made about the Mehran Risk Score- which is extremely relevant to the present topic. Recommend citing the following article for reference- Catheter Cardiovasc Interv. 2017 Aug 1;90(2):205-212.

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

Yes

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:

Acceptable

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