Reviewer’s report

Title: Continuous central venous oxygen saturation assisted intraoperative hemodynamic management during major abdominal surgery: a randomized, controlled trial

Version: 1 Date: 23 February 2015

Reviewer: Sirilak Suksopong

Reviewer’s report:

1. Is the question posed by the authors well defined?
Yes, but inconsistence throughout the paper. The main objective of the study is to evaluate the use of intraoperative ScvO2 in reducing the first 2 days after the operations. This is what they used to calculate the sample size on page 8 line 7. But it was not consistence with the aim in the abstract (page 2, line 4).

2. Are the methods appropriate and well described?
Yes

3. Are the data sound?
Yes, but I still wonder how many patient never had hypotension throughout the operation.

4. Do the figures appear to be genuine, i.e. without evidence of manipulation?
Yes

5. Does the manuscript adhere to the relevant standards for reporting and data deposition?
Only some parts. They need to add the consort figure, the randomization sequence generation, allocation concealment and funding source.

6. Are the discussion and conclusions well balanced and adequately supported by the data?

7. Are limitations of the work clearly stated?
Yes.

8. Do the authors clearly acknowledge any work upon which they are building, both published and unpublished?
Yes.

9. Yes.

10. Do the title and abstract accurately convey what has been found?
The main objective of the study is to evaluate the use of intraoperative ScvO2 in reducing the first 2 days after the operations. This is what they used to calculate the sample size on page 8 line 7. But it was not consistence with the aim in the abstract (page 2, line 4).

11. Is the writing acceptable?
No, it needs major revision by native spoken.

Minor Essential Revisions
The abstract should be rewritten;
1. The aim is not well described (page 2 line4)
2. The main outcome should be presented at the beginning of the results.
3. The conclusion should be changed because there was a statistically significant in postoperative PaO2/FiO2 ratio and survival (table 1). Though the other complication was not (table 3).
The table
*should be put after p-value that were < 0.05
What is the definition of severe hypotension in page 7, line 13?
Please give more details about postoperative course.
o Does every patient extubated and what about the oxygen supplementation?
Does there any different between the 2 groups?
o Does every patient go to the ICU?

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Not suitable for publication unless extensively edited

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:
No conflict of interest declare.