Reviewer's report

Title: The influence of basic ventilation strategies and anesthetic techniques on cerebral oxygenation in the beach chair position: study protocol

Version: 1 Date: 15 May 2012

Reviewer: Hiroyuki Kinoshita

Reviewer's report:

The authors conducted this study to test the hypothesis that changes in inspired oxygen fraction or end-tidal carbon dioxide correlate to a significant change in regional cerebral oxygenation in anesthetized patients in beach chair position. This reviewer has several concerns regarding their protocol.

1. The authors have to separate roles of changes in inspired oxygen fraction and end-tidal carbon dioxide. It is appropriate to set PET CO2= 30, 40 or 50 mmHg. And therefore, the above combinations should be modified, accordingly.

2. As the authors have already cited, there is controversy regarding the effect of beach chair position on the cerebral oxygenation. The authors have to cite following new papers and discuss it using the information.


3. Please consider using several types of cerebral oxygen monitors if it will be possible.

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

Quality of written English: Acceptable
Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:
No.