Reviewer's report

Title: Postoperative cognitive dysfunction after inhalational anesthesia in elderly patients undergoing major surgery: the influence of anesthetic technique, cerebral injury and systemic inflammation.

Version: 1 Date: 11 June 2015

Reviewer: John Bebawy

Reviewer's report:

Major Compulsory Revisions

1) A Table is needed, including p values, showing all comparisons done by the authors

2) Line 136-9: this is unclear, remifentanil is not used to maintain BIS, usually sevoflurane or propofol is. Please clarify this sentence.

3) Line 148-50: it is unclear which opioid was used for PCA, please include.

4) Line 205-10: please move this sentence to Discussion, not a result

5) Line 215-19: please move this sentence to Discussion, not a result

Minor Essential Revisions

1) Line 117: change "internal jugular venous pressure" to "internal jugular central venous pressure"

2) Line 188: please include location of manufacturer (for example, Chicago, Illinois, USA)

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I declare that I have no competing interests.