Reviewer's report

Title: Comparison of cerebral oximetry (INVOS) in cardiac surgery vs. vascular surgery patients. A prospective observational study

Version: 2 Date: 29 January 2010

Reviewer: Timothy Sakellaridis

Reviewer's report:

I read with interest your article about monitoring cerebral oximetry (INVOS) during cardiac surgery. Of course your article states only the baseline, and for monitoring cerebral oximetry anesthesiologists, cardiac surgeons and intensive care doctors have NIRS that it is non-invasive. As you stated, perhaps is a promising neuro-monitoring technology and we look forward to read the variation of INVOS during cardiac surgery in the future.

I feel that it is essential that this manuscript must be seen by an expert statistician if not but I do not feel adequately qualified to assess the statistics. As the authors state they have used statistical tools (spss etc.)

-> Major Compulsory Revisions

None

-> Minor Essential Revisions

If the data and the statistics are not be consulted by a statistician, then one must be consulted.

Few spelling mistakes must be corrected.

-> Discretionary Revisions

Need some language correction

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

Quality of written English: Needs some language corrections before being published

Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.

Declaration of competing interests:

'I declare that I have no competing interests'