**Reviewer’s report**

**Title:** Long-duration General Anesthesia Influences the Intelligence of School Age Children

**Version:** 0  **Date:** 01 Jul 2017

**Reviewer:** amanda friend

**Reviewer’s report:**

The standard of written English is poor and this makes it very difficult to assess the paper. Due to unusual grammar and odd sentence structure, it is sometimes very difficult to know what the authors actually mean. Additionally, there are a number of spelling and grammatical errors which require correcting.

Throughout the manuscript, you refer to "long-term" anaesthesia. Do you mean anaesthesia of a prolonged duration? Please clarify this.

The conclusion in the abstract "Long-term general anesthesia would influence the IQ of school age children during orthopedic surgery, but it could be avoided by good parental guidance." makes no sense. Do you mean long duration general anaesthesia? And what sort of parental guidance do you mean? Where is the evidence to support this statement?

Several times in the methods, it is stated that "general anesthesia/surgical procedure had minimal or negligible effects on cognitive function and the development of intelligence" and yet the conclusion is very different. Do you mean that the procedure itself would not have influenced cognitive function and intelligence? If so, say so, and provide evidence for this.

Why did you choose to use the RSPM score? Is it validated in this group? The reference you give (no 15) does not mention RSPM at all.

In the results, you state "those with a medium educated mother appeared to be twice and quadruple less likely to have a handicap in intelligence, respectively" - How did you get 2 results for a single factor?

In the discussion, you again state "some neurological impairment could be avoided by good parental guidance" yet provide no evidence to support this and no explanation of what you mean by good parental guidance.

**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.

No

**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:

Not suitable for publication unless extensively edited

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