Reviewer's report

Title: Clinical Psychomotor Skills among Left and Right Handed Medical Students: Are the Left-Handed Medical Students Left Out?

Version: 1  Date: 25 October 2015

Reviewer: Ana Da Silva

Reviewer's report:

This is an interesting subject and of interest for the medical community. Although I am unsure of the wide interest of this study however is a well designed study and worth considering.

- Minor Essential Revisions

Can the authors provide more details about how the two groups compare in the variables such as age, previous performance, etc.

The authors should indicate: a) that data was tested for normality and therefore fits the parametric assumptions; b) the statistical test used;

Proof-read and grammar check

- Discretionary Revisions

Perceptions of left-hand sided surgeons competence tend to be more negative, this paper presents important data showing that perceptions are just a myth. Would help to establish interest if this was more explored in the introduction.

Other comments:

1. Is the question posed by the authors well defined? yes very well find questions.

2. Are the methods appropriate and well described? Methods are well described and adequate. This paper describes a sound study, objectively designed.

3. Are the data sound? yes, it looks like the authors should indicate a) that data was tested for normality and therefore fits the parametric assumptions; b) the statistical test used;

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? yes
6. Are the discussion and conclusions well balanced and adequately supported by the data?
mostly. However some of the conclusions, like the one that LH work harder or study longer hours need a further study to be established, in the current paper these are just speculations, not data driven.

7. Are limitations of the work clearly stated?
yes well defined, could explore the context possible impact.

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 Do the authors clearly acknowledge any work upon which they are building, both published and unpublished?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

9. Do the title and abstract accurately convey what has been found?
yes both reflect the nature of the work presented

10. Is the writing acceptable?
yes but could gain from further professional proof-reading

**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, and I have assessed the statistics in my report.

**Declaration of competing interests:**
I declare that I have no competing interests