Reviewer’s report

Title: A systematic review of attention deficit/hyperactivity disorder and mathematical ability: current findings and future implications.

Version: 2 Date: 27 March 2015

Reviewer: Andrea Cipriani

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Major Compulsory Revisions

I can see that the protocol now is published in PROSPERO. However, only very few details are reported (i.e. it is not specified which is the study design the authors were looking for, there is nothing about the statistical analysis, the actual search terms are not reported so the search strategy is not replicable). By contrast, the manuscript is too detailed in some parts (see pages 6 and 7): all this information should go in the protocol.

I didn’t understand why six studies have been excluded from this updated and revised version. It is a significant proportion of the original evidence and I was wondering what would have happened if the studies had not been removed and been included in the published review. Apparently, raising the issue of the protocol helped the selection process. However, to have a freely accessible protocol is now the minimum standard for any systematic review and I encourage the authors to follow this procedure.

I still have significant doubts about the assessment of the risk of bias. The authors stated that they used the revised CASP, but it is not clear why they used a revised version and who did this revision (and whether it has been validated and replicated).

The quality of the reporting should be improved (for instance, PRISMA should not be mentioned in the objectives of the review or Figure 1 should clearly report both the results from the original search and the two additional studies retrieved by the updated search on Feb 1st 2015). Some sections could be condensed or reported as web appendices.

Quality of written English: Not suitable for publication unless extensively edited

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.