

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Pediatrics*

Manuscript NO: 65936

Title: Impact of stimulant medication on behaviour and executive functions in children with attention-deficit/hyperactivity disorder

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 00603715

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Professor

Reviewer's Country/Territory: Israel

Author's Country/Territory: Canada

Manuscript submission date: 2021-03-24

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-04-10 11:36

Reviewer performed review: 2021-04-10 12:12

Review time: 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**Peer-reviewer
statements**

Peer-Review: [☐] Anonymous [☒] Onymous

Conflicts-of-Interest: [☐] Yes [☒] No

SPECIFIC COMMENTS TO AUTHORS

This is a prospective open study assessing the effects of Methylphenidate on executive function of children with ADHD, both at sort term and partially at long term follow up. The results show that while in the short term there is a positive effect for Methylphenidate, there is some degree of tolerance since results at the long term follow up are less positive. The study is not novel, yet adding some important information to existing knowledge. The following are my specific comments: 1. These are partial results from a larger study. Please better explain and detail how were the participants selected and why only half continued for long term follow up. 2. Quantity and quality of sleep are crucial part of ADHD, and so is daytime somnolence. If there were questions in this regard in parental questionnaires these data should be added. If not – this should be discussed under the limitation of the study. Just as an example, two-year difference in assessment may be associated with delayed sleep phase syndrome (common in teenagers) and this could explain the deterioration after 2 years. 3. If the authors have school grades of the participants these should be added. 4. Please add P values to all tables.

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Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 04279936

Position: Associate Editor

Academic degree: PhD

Professional title: Academic Research, Professor

Reviewer's Country/Territory: France

Author's Country/Territory: Canada

Manuscript submission date: 2021-03-24

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-04-08 06:21

Reviewer performed review: 2021-04-12 19:26

Review time: 4 Days and 13 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
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Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Peer-reviewer statements	Peer-Review: [<input type="checkbox"/>] Anonymous [<input checked="" type="checkbox"/> Y] Onymous Conflicts-of-Interest: [<input type="checkbox"/>] Yes [<input checked="" type="checkbox"/> Y] No
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SPECIFIC COMMENTS TO AUTHORS

Comments - 65936_file This paper provides an overview on the short- and long-term impact of stimulant medications in children with Attention Deficit Hyperactivity disorder with the aim to evaluate objectively by analysis both behavior rating scales completed by parents and neuropsychological performance-based measures. Several test vs treatments applied have been discussed in this paper while highlighting the different cross indicators that result from each test. The document is well written. Despite the authors address in this document an interesting subject with a structuring approach, the content is marred by the size of the studied sample which, in medical observations, does not give satisfaction for a concrete conclusion. Noted that, this observation is confirmed on page 19 by the authors. Moreover, the introduction is long and it was necessary to adapt the problem from the third paragraph: "... the measurement ...". Page 6, the section " Specifically,, with ADHD": is not always true. That depends on several psychological as well as environmental factors. Page 8, "All participants had diagnosis of ADHD": would have been more judicious to have the same professional for all the subjects studied in order to standardize the analysis tool for a non-subjective comparison. Page 12, "Baseline. On thethe assessment": I do not find either the place or the interest of this paragraph in a scientific paper In conclusion, the work proposed by the authors does not allow publication in a scientific journal. They are encouraged to give more effort into both the form and the analysis of a "critical volume" of data to make the content workable.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Peer-review model: Single blind

Reviewer's code: 00603715

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Professor

Reviewer's Country/Territory: Israel

Author's Country/Territory: Canada

Manuscript submission date: 2021-03-24

Reviewer chosen by: Han Zhang (Online Science Editor)

Reviewer accepted review: 2021-09-18 10:46

Reviewer performed review: 2021-09-18 10:58

Review time: 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The authors have responded to my comments and I have no further comments.