Reviewer’s report

Title: Four years' follow-up changes of physical activity and sedentary time in women undergoing Roux-en-Y Gastric Bypass surgery and appurtenant children

Version: 0 Date: 01 Oct 2017

Reviewer: Tobias Zingg

Reviewer’s report:

Thank you for the opportunity to review this manuscript, in which the authors describe a cohort of 30 women and their 40 appurtenant children with respect to their physical activity and sedentary time at three time-points, 3 months before, 9 months after and 48 months after Roux-en-Y gastric bypass.

They found no difference in physical activity or sedentary time among the mothers, but observed a significant decrease in physical activity and a significant increase in sedentary time in their children. Only about a third of study subjects (mothers or children) meet the current guidelines on physical activity at 48 months post surgery.

The manuscript is well written, the results interesting and it's novelty being the long period of follow-up with objective measures. It should in my opinion be suitable for publication after a few points have been addressed.

Major comments:

It's very surprising to read that none of the mothers in this study had type II diabetes, even 3 months before surgery (Results section, line 23). I think this should be mentioned and discussed at some point in the Discussion section.

The last paragraph of the Methods section should belong to the Results section. Please reconcile.

There was a very high drop-out rate. Why were accelerometer data available for all three time points in only less than 50% of study subjects? Is there a reason to believe that physical activity and sedentary time was different in those with unavailable data? Please comment.

Minor comments:

No short title required, please remove.

Acknowledgements should be removed from Title page. Please reconcile with Acknowledgments at the end of the document, which are different from these on the Title page in the current version.
Abstract:

Please combine Background and Objectives to one only Section "Background".

"MVPA" needs explanation since not used before in the abstract.

Please provide Key Words after Abstract.

"What is already known about this subject?" and "What does this study add to the subject?" , although interesting and helpful to the reviewer, are not in accordance with the required manuscript format. Please remove this section.

Background:

Please replace "Introduction" with "Background".

Line 13: physiologic and physiological: what is the difference?

Line 26: higher levels of PA .... HAVE been ...

Methods:

Please provide details on Accelerometer manufacturer (line 8)

Results:

Line 5 ON THE contrary.

Line 36: remaining, not reaming ?

Discussion:

Avoid starting two consecutive phrases with "In addition".

Line 15: ...with a reduction in children's lives of PA and INCREASE IN ST nine .... Please reconcile with results!

Line 31: use "may" or "could" instead of "can".

Please add Conclusions heading.

The last phrase should be revised. For example: This indicates ....
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.

No

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes

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:

Acceptable

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