**Reviewer’s report**

**Title:** Impact of technology-based interventions for children and young people with type 1 diabetes on key diabetes self-management behaviours and prerequisites: A systematic review

**Version:** 1  **Date:** 14 Nov 2018

**Reviewer:** Eda Cengiz

The manuscript by Knox et al. is a systematic review of the evidence assessing the effectiveness of technology-based interventions to promote diabetes self-management and adherence to treatment guidelines in children and young adults with type 1 diabetes mellitus.

Authors systematically reviewed the literature listed in key databases that are relevant to the topic.

Line 112-113 (page 5) Dexcom G5 or G6 CGM which make automatic adjustments and would not be included- This is an incorrect statement and requires clarification. It gives the impression that Dexcom G5 and G6 CGM make automatic treatment adjustments. Dexcom G5 and G6 are new generation CGMs that do not require fingerstick blood glucose calibration.

Result section consists of sub-sections for interventions reporting on frequency of SMBG, insulin administration behavior, glycaemic control (HbA1c), physical activity, psychosocial or cognitive indicators of improved self-management. While study results are presented under each section, there is not a clear interpretation of the data or its clinical relevance. There is a clinical relevance column in table 2, however does not provide an explanation of the clinical relevance and is not supported by an explanation in the results section. I recommend rewording of the clinical significance of findings column. Some of the sentences are incomplete and confusing. There is no interpretation of the number of subjects lost to analysis or subject retention. Discussion section could be enriched by expanding on the relevance of these findings from a clinical perspective.

I suggest citing the results from the study by Petry et al. given the direct relevance to the review.

Limitations of the review paper are not stated in the text.

**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.

Unable to assess
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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