Reviewer’s report

Title: Medication management support in diabetes: A systematic assessment of diabetes self-management apps

Version: 0 Date: 27 Apr 2019

Reviewer: Sunil Deshpande

Reviewer's report:

This paper presents a review of smartphone apps for self-management of diabetes. International medication management guidelines are used for assessment with focus on medication management and adherence.

- The paper compares apps from Android and iOS and reports p-values (Table 2), however the paper does not mention the null hypothesis, and discussion on the scientific implication of this exercise is also missing.

- Diabetes involves the dual problem of taking action (e.g. medication) while also measuring the effect on the outcome (glucose). A person might be diligent with taking once a day medication but doesn't really monitor its effect of glucose. Please discuss how reviewed apps address these two aspects of diabetes management.

- The focus is on medication adherence with apps but discussion on different types of medications for diabetes (insulin vs non-insulin) and its challenges with adherence is missing. The authors should also comment on challenges of adherence for type 1 vs type 2 diabetes from the context of reviewed apps.

- For completeness, please mention the OS version (Android and iOS) used for testing the apps.

- In the abstract, for clarity, please also mention the number of apps for each reported percentage value as in the manuscript.

- In the supplementary document, a list of all apps (143) reviewed in the paper should be presented for the record.

- References have to be complete and formatted consistently. The last paragraph in Background section needs proper citation of the paper.
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.

Not applicable

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 recommend additional statistical review

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

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