Reviewer’s report

Title: Patients' and caregivers' experiences of using continuous glucose monitoring to support diabetes self-management: qualitative study

Version: 0 Date: 14 Oct 2017

Reviewer: Nick Oliver

Reviewer’s report:

Many thanks for asking me to review this manuscript entitled 'Patients' and caregivers' experiences of using continuous glucose monitoring to support diabetes self-management: qualitative study'. The study aimed to explore participants' experiences of using CGM in order to provide recommendations to supporting individuals to make optimal use of technology. The conclusions are interesting but will not surprise clinicians or people with diabetes with CGM experience. It is a well written manuscript and reflects in-depth interviews but requires some further details and discussion as follows:

The study is detailed but small and focusses on participants in a closed loop insulin delivery study. Some baseline demographics are presented but HbA1c and duration of diabetes are not provided. These are required to contextualise the data - closed loop studies rarely recruit a representative sample of people with T1DM.

It is also important to report the CGM device used and the sensor wear time for the period analysed, either for individual participants or by age group.

In order to understand the results it is critical to know what the participants were taught about the use of CGM? Did they have standardised education at the start of the CGM period? Were they given written information? Did they use the device non-adjunctively? Were the alarm settings standardised? Did caregivers routinely follow their children's data remotely?

In discussing the need for education the authors may wish to refer to the very simple rules given to participants in the DIAMOND study.

The authors discuss the limitations but do not explicitly note that their study only recruited people using insulin pumps and the findings may not be generalizable to people using MDI. It's also worth explicitly noting the age distribution heavily favours those aged 31-40.

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.

Unable to assess

**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.

Not relevant to this manuscript

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

Acceptable

**Declaration of competing interests**
Please complete a declaration of competing interests, considering the following questions:

1. Have you in the past five years received reimbursements, fees, funding, or salary from an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

2. Do you hold any stocks or shares in an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

3. Do you hold or are you currently applying for any patents relating to the content of the manuscript?

4. Have you received reimbursements, fees, funding, or salary from an organization that holds or has applied for patents relating to the content of the manuscript?

5. Do you have any other financial competing interests?

6. Do you have any non-financial competing interests in relation to this paper?

If you can answer no to all of the above, write 'I declare that I have no competing interests' below. If your reply is yes to any, please give details below.

I declare that I have no competing interests

I agree to the open peer review policy of the journal. I understand that my name will be included on my report to the authors and, if the manuscript is accepted for publication, my named report
including any attachments I upload will be posted on the website along with the authors' responses. I agree for my report to be made available under an Open Access Creative Commons CC-BY license (http://creativecommons.org/licenses/by/4.0/). I understand that any comments which I do not wish to be included in my named report can be included as confidential comments to the editors, which will not be published.

I agree to the open peer review policy of the journal