Reviewer's report

Title: Designing effective visualizations of habits data to aid clinical decision making

Version: 3 Date: 19 June 2014

Reviewer: Ewart Carson

Reviewer's report:

This paper has two aims, namely to develop an effective visualisation of habits data to aid clinical decision making, and to provide further exemplar evidence of the merit of user centred design in such a healthcare context. The paper, which is logically structured and in general clearly presented, achieves both of these aims. As such it is potentially publishable in this journal.

However, there are first a number of points that need to be addressed:

1. Page 4, line 138: It is stated that "in our work we determined that optimum presentation of data ..." There needs to be clear evidence as to how this conclusion was reached.

2. Page 5, line 168: It is stated that individuals were asked to score each visualisation for effectiveness ..". Detail needs to be provided of this scoring process.

3. Page 6, line 194: Reference is made to a "normal" pattern,. In what way is this normal? How is it defined?

4. Page 7, line 261: It is stated that there were no suggestions. Suggestions of/for what? Please explain.

5. Page 8, line 308: Some brief text needs to be included in this section to accompany the figures.

There are some corrections of spelling that are needed (global changes):
Centred (not Centered)
behaviour (not behavior)
labelling (not labeling)

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Needs some language corrections before being published

Statistical review: No, the manuscript does not need to be seen by a statistician.
Declaration of competing interests:

I declare that I have no competing interests