Reviewer’s report

Title: Building the Case for Actionable Ethics in Digital Health Research Supported by Artificial Intelligence

Version: 1 Date: 29 May 2019

Reviewer: Karsten Weber

Reviewer's report:

The revisions made by the authors are appreciated and have significantly improved the text. A large number of comments and suggestions have been taken into account. However, some questions remain unanswered or have not yet been sufficiently addressed.

It is obvious that the authors focus on the use of AI in healthcare. This does indeed make sense, as the use of AI has great potential for improving health care. However, the authors introduce the text by wanting to discuss fundamental ethical questions regarding the use of digital technology in healthcare. But then focusing on AI is problematic, as digital technology encompasses much more than AI and many moral questions cannot be asked when merely focusing on AI. It would therefore make sense to change the title of the paper and the introduction accordingly in order to make it clear from the outset that the authors want to address ethical aspects of AI in healthcare. This would better represent the structure and content of the text.

Finally, figure 1 probably should be revised. One can certainly express ethical principles in different ways and, for example, describe autonomy and non-maleficence (in the sense of Beauchamp & Childress) as respect for the person. However, it is difficult to understand why the protection of autonomy does not appear explicitly in the figure. The emphasis on individual autonomy is certainly a rather Western concept, but very relevant there.

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