Reviewer's report

Title: Development of a Nursing Intervention to Facilitate Optimal Antiretroviral Treatment Taking among People living with HIV

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Reviewer: Gozde Ozakinci

Reviewer's report:

This manuscript reflects the valuable efforts of the authors in creating an intervention for people living with HIV/AIDS in order to increase adherence to antiretroviral treatments. The authors used intervention mapping approach having identified a gap in the empirical literature regarding efforts to increase adherence in this population. Some comments:

Major compulsory revisions:
1. The paragraph before Step 2 tries to identify the outcome of this intervention which is framed in terms of behavioural change. However, they report in that sentence that the outcomes relate to enhancing self-efficacy and positive attitudes. The ultimate outcome of this intervention sounds like is increasing adherence. However, this is aimed to be achieved by self-efficacy and attitude change. The authors need to be clear about outcomes and potential mediators and moderators.

2. The authors report the work they have done in the Step 5 (Implementation). It would be quite useful to provide the data that support their conclusions that the intervention is acceptable, feasible etc..

Minor essential revisions:
1. The authors mention "adverse effects" under Analysis of Behaviour (I assume behaviour refers to 'adherence to treatment regimen' here). It's not clear what these 'adverse effects' mean.

2. The theoretical background is described in detail. Would it be worth to shorten these sections?

3. In second paragraph of Self-efficacy Theory heading, the authors put Bandura in parantheses without referencing it.

4. The sentence in the second paragraph of the Persuasion Theory that begins with Petty and Caccioppo is confusing and would benefit from revising.

Level of interest: An article of importance in its field

Quality of written English: Acceptable
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