Reviewer’s report

Title: Psychometric Properties of the Scale for Non-adherence to Antiretroviral Medication Among HIV-Infected Iranian Patients

Version: 0 Date: 16 Sep 2019

Reviewer: Charlotte Beaudart

Reviewer's report:

1/ it is not clear how and where participants were recruited.
2/ authors wrote that they selected participants with a first-hand experience regarding the study objectives. What does it mean?
3/ Authors developed a scale using only target population as data source to develop the items of the scale. They ensured content validity with this technique. However, it is highly recommended to broaden the sources of data collection. For example, why authors did not investigated literature about items to be included in the questionnaire? Or experts in the field? This should be discussed as a limitation of this study.
4/ The paragraph about "face validity" is unclear. Is this step equal to a pre-test of the questionnaire and an item-reduction analysis? If not, did the authors performed a pre-test of their questionnaire?
5/ Some information about the final version of the questionnaire are missing. For example, is it a self-administered questionnaire? What is the name of this questionnaire? Moreover, in results authors indicated the presence of 6 domains but they never presented them, except in tables and discussion section.
6/ Why did the authors not assess test-retest reliability of their new questionnaire? And floor and ceiling effects? These are very common psychometric properties to evaluate.
7/ 61.98 percent of variance is not a very high result. Do authors have some hypotheses to explain their results?
8/ Authors used ICC to assess external validity. It is not clear. What does they meant by external validity and how did they run their statistics?
9/ Authors indicated that one item was eliminated because it shows low correlation with the rest of the items. I do not think authors presented any correlation analysis in their method section. Please be more specific.
10/ A point missing in the results section is the results of the questionnaire administration. Some information about this is presented in discussion section but should be moved to the results part.

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Acceptable

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