Reviewer's report

Title: Pharmacy refill adherence outperforms self-reported methods in predicting HIV therapy outcome in resource-limited settings

Version: 1 Date: 16 May 2014

Reviewer: Kebede Deribe

Reviewer's report:

General comment: This study was a single-centre prospective cohort study enrolling 220 HIV-infected adult patients attending an HIV/AIDS Care and Treatment Centre in Dar es Salaam, Tanzania. Different ART adherence measurements including pharmacy refill, self-report, pill count and appointment keeping adherence measurements were investigated. The results indicated that pharmacy refill adherence measure was found to outperform the rest of the measurements.

Minor Essential Revisions

1. Title page: there seems to be more than two institutional address but only two of them were indicated in the title page.
2. Abstract: the abstract reflects the findings of the study and properly summarized.
3. Introduction: Most of the statements in first paragraph needs to be referenced. Currently they lack reference. The rest is well written and justifies the importance of the study.
4. Methods: The selection of the sampling should be clearly stated as it is convenient sampling. In addition there should be a justification for 254 or 220 sample size, currently nothing was mentioned how the authors arrived at this sample?
5. The rest of the methods and the result sections are well described.
6. It would be helpful to see at least one ROC curve for the best performing measurement.
7. Discussion: Is well written and discuss the findings very well.

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

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:
I declare that I have no competing interests.