Reviewer’s report

Title: Clinical and Immunological outcomes according to adherence to first-line HAART in a urban and rural cohort of HIV-infected patients in Burkina Faso, West Africa: a longitudinal Cohort study

Version: 2 Date: 29 August 2013

Reviewer: Andrea Calcagno

Reviewer’s report:

Major Compulsory revisions
1) Ethics: I find acceptable ehat is discussed in the Mat&Met section provided the authors state (if true, obviously) that the administration of the adherence questionaire was not an intervention but it was part of routine clinical practice (since year xxxx).
2) abstract: I would add the prevalence of adherence class instead of mortality rates.
3) I would suggest to expand the methods section further explaining how the test was administrated
4) I think some informations/analysis are missing and they can improve the completeness of the paper:
   a) numbers of patients lost to follow/up (global/per year/per adherence class)
   b) number of deaths (global/per year/per adherence class)
   c) Maybe I missed it but is the multivariate analysis corrected by calendar year and prevalence of lost to follow up and type of HAART?
   d) I know missing data can be many but are the causes of death available?
   e) Perhaps listing the third drugs used in the regimens (EFV vs NVP, LPV vs ATV) and the prevalence of tenofovir use may be useful (given the fact that different drugs have different forgiveness and therefore they may be associated with different selection of RAMs)

Minor essential revisions
I would suggest the article to be checked by an English native speaker

Discretionary revisions
I have no idea of what F2660 is

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:** Yes, but I do not feel adequately qualified to assess the statistics.

**Declaration of competing interests:**

No competing interest