Reviewer’s report

Title: PXR and CAR single nucleotide polymorphisms influence plasma efavirenz levels in South African HIV/AIDS patients

Version: 1 Date: 17 September 2012

Reviewer: Jatinder Lamba

Reviewer’s report:

Major Compulsory Revisions

It is well known that efavirenz is metabolized by CYP2B6 and CYP2B6 SNPs are significantly associated with its disposition. Authors should genotype for CYP2B6 SNPs and add the observed results to that to get more complete picture of the genetic analysis. It is possible that after analyzing for CYP2B6 the association with NR1I2 SNPs might be different than reported.

Authors have not included information on any association of gender differences, this should be acknowledged given the fact that there are gender differences in drug disposition.

Table 3 is not clear, it should be indicated that these are result of resequencing n number of subjects .

Although Authors have performed haplotype analysis they have not clearly indicated association of haplotype analysis with the clinical data. Also please include SNPs in the haplotype in the manuscript text.

Minor Essential comments:

Table 7 is not required in the manuscript and should be moved to supplementary tables.

Figure 1 please include the exact pa value instead of p<0.05 for TT vs. TC

Multiple spelling mistakes should be corrected

Level of interest: An article of importance in its field

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 interests to declare