Reviewer's report

Title: Patterns of mixed Plasmodium malaria infections among children 6 years and under in selected malaria hyper-endemic communities of Zambia: population-based survey observations

Version: 1 Date: 23 February 2015

Reviewer: Olivia Achonduh-Atijegbe

Reviewer's report:

Major Compulsory Revisions
1. Abstract: Prevalence of non-falciparum species should be mentioned in the abstract. Specifically state the prevalence of type of mixed infection (e.g Pf/Pm/Po etc). Not clear in the abstract whereas it is the focus of the study..
2. Methods; Page 6 Line 18; what type of RDT was used (specify the antigen(s))
3. Page 7 line 5; Delete table 1 since method used is already cited.
4. Page 8 line 11; Include the reference number of the ethical approval
5. Page 9 line & Page 10 line 5 : Replace " burden" with prevalence
6. How will these findings influence malaria treatment in these regions? Not clear in the current discussion.
7. What is the difference between figure 2 and table 4? the information in figure 2 can be included in table 4.
8. Page 21 line 9: Key is for figure 1 NOT figure 2.

Minor Revisions
1. Page 27 Line 3: Revise the Notes (legend), the message is not clear.
2. Include appropriate legends for all figures and tables
3. Check spelling errors e.g ; Figure 1. P. malariae etc

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