Reviewers report

Title: Prescriber and patient-oriented behavioural interventions to improve use of malaria rapid diagnostic tests in Tanzania: facility-based cluster randomised trial

Version: 1 Date: 31 January 2015

Reviewer: George Zhang

Reviewers report:

#### Major Compulsory Revisions (which the author must respond to before a decision on publication can be reached)

Figure 2 vs. Table 1

1. The actual numbers of N_hw = 35 in Table 1 did not match those in Figure 2 (HWs: 34 to 35) – why? Am I missing something?

2. The number “all eligible patients” at the bottom (end of trial) in Figure 2 were reported as “15,931”; but should it be the sum of patient numbers cumulatively from evaluation period 1 to 4 (702 + 6,630 + 3,973 + 2,269 = 13,574)? – Please explain or double check the numbers. Similar puzzle for control arm: 14, 217 (reported) vs. 9050 (the actual sum).

#### Minor Essential Revisions (such as missing labels on figures or the wrong use of a term which the author can be trusted to correct)

3. Abstract

To be more informative, please add study period (e.g. 2007 – 2009 in Table 1 or 2011-2012 in Results, 1st paragraph?) and intervention follow-up time frame (“6-weekly supervisory visits”?)

Statistical methods

4. Any multiple comparison issues for this 3 arms stratified cluster randomized trials?

5. Please specify what alpha level is regards as statistical significant and which statistical software to conduct the analysis.

6. In terms of the tradeoff between sensitivity and specificity of the RDT diagnostic test, are both properties improved after the intervention?

#### Discretionary Revisions (which are recommendations for improvement but which the author can choose to ignore)

7. Figure Numbers only mentioned in the overall Figure Legends page; but Figure Number was absence in each actual figure page. It is not convenient for reading and the issues may also be easy to have errors or mis-matches.
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.