**Reviewer’s report**

**Title:** Prevalence and Risk Factors for Multidrug/Rifampicin Resistant Tuberculosis in Botswana

**Version:** 2  **Date:** 27 Apr 2019

**Reviewer:** Sanghyuk Shin

**Reviewer’s report:**

Overall, the authors addressed prior concerns adequately. The major issue I have is that this data represent patients already suspected to have DR-TB. This is a major point that significantly affects interpretation, as the prevalence estimates are only generalizable to a highly selected group of DR-TB cases. Currently, this fact is only described in one sentence of the Discussion section (page 16 Line 36). The authors should clearly identify the criteria for DST in the Methods (e.g. only patients considered to be at high risk for DR-TB based on certain criteria were tested for DR-TB). Please also clearly state that the study comprises people suspected of DR-TB in the Title and Abstract. The authors should also describe how this selection process would affect the prevalence estimates compared to if DST was done on all TB cases.

Minor additional comments include:

* The abstract entered into the submission system seems to be different than the abstract for the manuscript. Please update.

* Page 4. Lines 25-35. Please add the fact that most DR-TB cases in high TB transmission countries are due to primary transmission (i.e. patient is infected with a DR-TB strain).

* Page 6. Lines 22-24. If available, please indicate how many discordant cases were found and excluded from the analysis.

* Page 6. Lines 31-32. Please indicate how many were excluded due to not having DST done (not suspected of DR-TB) vs. how many excluded for other reasons.

* Page 6. Lines 31-42. Please indicate whether the smear and DR data were collected at baseline or include status at any time during the treatment.


* Page 8. Line 43. I believe the sex ratio should be 1.14:1, not 1.4:1.

* Page 10. Line 14. You may want to point out in Discussion that there are high % of previous TB cases in your sample due to the DST practices that target suspected DR-TB cases.
Page 15. Line 25. Based on this sentence it seems that you included all smear status during treatment (not just baseline). If so, you should delete all mention of smear status being associated with the prevalence of DR-TB throughout.

**Are the methods appropriate and well described?**
If not, please specify what is required in your comments to the authors.

No

**Does the work include the necessary controls?**
If not, please specify which controls are required in your comments to the authors.

Yes

**Are the conclusions drawn adequately supported by the data shown?**
If not, please explain in your comments to the authors.

Yes

**Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?**
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

**Quality of written English**
Please indicate the quality of language in the manuscript:

Acceptable

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