Reviewer’s report

Title: Change in prevalence and molecular characteristics of isoniazid-resistant tuberculosis over a 10-year period in China

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Reviewer: Roberto Zenteno

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Comments to manuscript INFD-D-18-01575: Change in prevalence and molecular characteristics of isoniazid-resistant tuberculosis over an 10-year period in China

In this manuscript the authors show the variations of isoniazid behave in two sets of clinical isolates from China

The information is interesting and could be published, however some questions emerging from the review of the document.

In the Bacterial strains section could the authors clarify with more detail how was selected the populations of isolates in both periods of time, how was the collecting and selection process. Considering that in both periods they have almost the same number of isolates from each year. This is important considering that the rest of the comparisons were made considering these isolates.

How was made the storage and further recovery and processing of the strains from 2005.

Why the results were totally concentrated in the description of isoniazid resistance, why was not included data from other resistances, at least a general description of them could be very informative. This was mentioned as work done in the methods section, but no more data was included. By example, which was the percentage of isolates with MDR, or the characteristics of resistance against second line drugs in the isolates from both periods of times, at least a table summarizing these data is necessary.

Could the authors mention which is the behave of the isolates bearing inhA mutations in relation to the other resistances, this could important in terms of see the bias of the mutations or the possibility of compensatory mutations.

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

Yes

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.

Not relevant to this manuscript

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

Acceptable

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