Reviewer's report

Title: Lipoarabinomannan in Urine during Tuberculosis Treatment: Association with Host and Pathogen Factors and Mycobacteriuria

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Reviewer: Susan S Dorman

Reviewer's report:

The authors assessed urinary LAM in a group of TB patients attending a public TB clinic. There are two major new findings presented in this manuscript. First, Xpert testing of urine was positive in almost 50% of urine LAM positive specimens, supporting the hypothesis that the LAM test is detecting whole bacteria in the urinary system - this has relevance diagnostically and from a pathophysiology perspective. Second, this manuscript provides the first description of results of longitudinal LAM testing during the course of TB treatment. The study population, methods, and statistical approaches are appropriate, and the authors' conclusions follow appropriately from study results.

I have no major comments.

I have only one very minor comment - the wording of the 2nd sentence in the abstract is awkward and should be revised ("However, the sensitivity of a urine LAM-ELISA assay for TB diagnosis has demonstrated very variable sensitivity in different clinical settings."

Level of interest: An article of outstanding merit and interest 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