Reviewer's report

Title: Urinary cytokines in Schistosoma haematobium-infected schoolchildren from Tana Delta District of Kenya

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Reviewer: Ayola Akim ADEGNIKA

Reviewer's report:

The study of Kariaku et al., raise an important clinical impact assessment of urinary schistosomiasis in school aged children using variables tools including urinary selected cytokines, hematuria, eosinophilia cationic proteins, as well as the ultrasonography of the urinary tract pathology.

Major revisions

There is no justification of the samples size of the study.
For better appreciation of results presented the 95%CI should be showed in the manuscript.
The authors decide to combine the negative with the light data fine. How the data are looked like when either the 9 negative groups are analysis separately or to remove them from analysis. Of course one could understand the fact that it is difficult to have a pure negative in high endemic area, but one cannot exclude neither the existence of negative nor resistance participants.

Minor revision

They report a positive IL-6 and negative IL-10 urinary cytokine association (but not correlation as stated by the author in the abstract) with high density of S. hematobium egg counts and urinary tract inflammation.

In the MM section, author should indicate at which urine time point the infiltrated urine was collected to assess the urinary cytokine, as well as the urine collection method to avoid any contamination.

Author report lower and upper urinary tract infection, in children but it looks like none of them have both. Interestingly to the reader author may be more specific to the kind of pathology reported regarding the age of children, one could be interested into that.

Are there any chance for the author to look at the implication of serum cytokine ratio TNF-# and IL-10?

Level of interest: An article of importance in its field

Quality of written English: Needs some language corrections before being
published

**Statistical review:** Yes, but I do not feel adequately qualified to assess the statistics.

**Declaration of competing interests:**

No COI