Reviewer’s report

Title: Prevalence and predictors of Campylobacter infection among under five children with acute watery diarrhea in Mwanza, North Tanzania

Version: 5 Date: 13 November 2013

Reviewer: Catharina Matheï

Reviewer’s report:

Dear,

I thank the authors for appropriately addressing most of my comments. However there are still some pending issues.

Abstract
I missed this probably in my first review, but the authors describe their study design as “prospective cross sectional”, which is a contradiction in terminis. It should be a “cross sectional study”.

Methods
I would describe the limitations of the study in the discussion section. The authors should also explicitly mention the fact that they do not know what is the proportion of eligible children that eventually participated in the study. Since they have no idea about the characteristics of these children and the reasons of non-participation this might be a source of bias. Figure 1 is in this respect misleading since it suggests that all eligible children participated in the study.

Results
Page 7 line 56: it should be: “a significant higher number of “

Discussion
Page 10 lines 217-22. I’m not convinced about this explanation. A bit earlier in the discussion the authors mention that their findings suggest that at least in the Mwanza region the prevalence hasn’t much changed. This doesn’t support an improved socio-economic situation. For the other region the lower prevalence is attributed to the higher use of antibiotics. However, this is not supported by the results of the multivariate analysis, which shows that antibiotic use is not independently associated with Campylobacter infection. How do the authors explain this?

The study is a cross-sectional study. Therefore the authors shouldn’t use the term predictors. The terms risk factors or determinants are more appropriate.

Page 10-11, lines 233-41. The results of this study do not support any association between living in the proximity of cattle and/or consumption of unboiled water and Campylobacter infection.
What about the relationship between Campylobacter infection and malaria?

**Level of interest:** An article whose findings are important to those with closely related research interests

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

**Statistical review:** Yes, and I have assessed the statistics in my report.

**Declaration of competing interests:**

I declare that I have no competing interests