Reviewer’s report

Title: An association between Helicobacter pylori infection and cognitive function in children at early school age: a community-based study

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Reviewer: Lucia Braga

Reviewer’s report:

This well presented paper is an interesting report raising the possibility that H. pylori infection is associated with cognitive development among school age children.

This study only found association amongst children from a relatively higher socioeconomic community. A limitation of this study is the low number of children included in each group studied.

MINOR ESSENTIAL REVISIONS

As hemoglobin levels measure current abnormality and cognitive function is a long-term measure with a cohort effect, the authors need to discuss the likely duration of anemia and the limitations of the approach used. Similarly, only current H. pylori infection was measured, as detected by HpSA. Therefore, it would be important to mention in the discussion section that the role of the duration of the infection was not evaluated in this study and can be considered a limitation.

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

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.