Reviewer's report

Title: Disparity of anaemia prevalence and risk factors among rural to urban migrant and the local children under two years old: a population based cross-sectional study in Pinghu, China

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Reviewer: Zumin Shi

Reviewer's report:

This is an interesting and important study. It described the disparity of anemia between migrant and non-migrant children in an economically booming area in China. The paper is well written.

Major

1. In history, the Yangtze delta had the highest prevalence of anemia among adults in China (results from Chinese National Nutrition Surveys). However, the cause of anemia has not been well studied. Simply assuming iron deficiency anemia (due to low iron intake) is harmful. Can the author comment more on the fact that no association between iron rich food consumption and anemia among local children, while a strong inverse association was found among migrant children? Is iron-fortified supplement the best way of preventing anemia in this region especially for the local children? Using data from Jiangsu province, China, we found that among adults when riboflavin intake is adequate, iron intake does not make a difference regarding the risk of anemia (Shi Z, Zhen S, Wittert GA, et al. Inadequate riboflavin intake and anemia risk in a Chinese population: five-year follow up of the Jiangsu nutrition study. PLoS One. 2014;9:e88862.).

2. Among the migrant children, is there any difference of the prevalence of anemia regarding their birth place (or where their parents came from)?

3. Since the dietary information is available, the iron and other micronutrients intake should be presented.

Minor

1. Please check reference 20 (page 4). It is not correct.

2. Definition of MMF, MDD (Table 1) should be described in the text (method section). The definition of MMF is difficult to understand.

3. What food can be classified as iron rich food in the study? Please give some examples. If the intake of iron is presented, this information is not necessary.

4. Page 7. I do not think that references 17-18, 20 are researches based on clinical resource data.
Level of interest: An article of importance in its field

Quality of written English: Acceptable

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

Declaration of competing interests:
I declare that I have no competing interests