Reviewer's report

Title: Breastfeeding and vitamin D supplementation reduce the risk of Kawasaki disease in a German population-based case-control study

Version: 0 Date: 20 Nov 2018

Reviewer: Robert Tulloh

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Meyer et al
Breastfeeding and Kawasaki

Summary. The authors produce interesting data in the correlation between vitamin D, breastfeeding and KD

Specific points.

1. This is a very well written paper and is clear to read.

2. We know that KD is more likely to occur in rural populations than in urban areas. Perhaps, there are this and other correlates with not taking Vit D - which might be causative. Perhaps those living in the country might not want to take Vit D and this could be linked? Therefore, it is important to avoid any causative assumptions. How would the authors explain that countries where Asian children are known to be Vit D deficient have a low incidence of KD

3. The average age of the children should surely be shown as median, not mean.

4. The average age is shown as 6.6 years. This is very unusual, suggesting there are as many 11 year olds as 1 year olds. Most studies have about 18 months as the median age. It suggests a selective group of children in this sample.

5. There is a very low proportion of incomplete cases. How do the authors explain this?

6. Table 1. Legend. Is n really =2017?

7. P10. It seems surprising that 3 weeks difference in length of Vit D administration should cause KD. This seems unlikely.
Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

No

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I recommend additional statistical review

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