Reviewer’s report

Title: Association between Pre-and Postnatal Growth and Longitudinal Trends in Serum Uric Acid Levels and Blood Pressure in Children aged 3 to 7 years

Version: 2 Date: 17 May 2019

Reviewer: A. G. van Wassenaer-Leemhuis

Reviewer's report:

This manuscript aims to show the difference between uric acid levels and blood pressure in 55 LBW children with catch up growth versus those in 308 NBW children.

However there is a case mix of preterm and term children LBW with catch up and preterm children outnumber the term children by a factor 2. Authors seem to claim that all preterm children in their cohort had catch up growth. That is hard to believe.

Nevertheless the strongest effect comes from the term LBW. That would in itself merit publication but the number of observations is very low, 20 at inclusion.

At age 7, only 11 children in the 55 LBW cohort are left. But we do not learn whether they are preterm or term.

Important information is missing. For example BMI in the LBW group at age 3, 5 and 7 is lower, while weight gain is higher in the LBW group. So we are missing details about height.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

No

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?
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I recommend additional statistical review
Quality of written English
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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