Reviewer's report

Title: Central Precocious Puberty in a 3 year-old girl with Phenylketonuria: a rare association?

Version: 2 Date: 27 December 2013

Reviewer: Peter M van Hasselt

Reviewer's report:

The paper is well written and overall easy to read. What this paper adds is that the TCPP in patients with PKU cannot be attributed to poor control of / lack of adherence to the diet alone. (Using Potter's black swan logic). THis piece of information is worth the case report, as it indicates that the pathophysiological mechanism underlying an association between TCPP and PKU (if present) is unexplained.

Minor essential revisions:
1. The discussion does not presently align with the data put forward. The data presented suggest the association between TCPP and PKU is - at best - very modest. metab-l response does not seem to suggest it is worthwhile to perform a large study on this subject, and the authors do not presently put forward other arguments (eg possible pathophysiological mechanisms) to move in this direction.

2. The conclusions section is in fact a 'future directions' paragraph. It should be used for a real conclusion.

Level of interest: An article of limited interest

Quality of written English: Acceptable

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

Declaration of competing interests:

I declare that I have no competing interests