Reviewer's report

**Title:** Parental academic involvement in adolescence as predictor of mental health trajectories over the life course: A prospective population-based cohort study

**Version:** 2  **Date:** 3 March 2015

**Reviewer:** Anu Molarius

**Reviewer's report:**

The authors have sufficiently replied to almost all of the comments raised in the review and revised the manuscript accordingly. I have two further comments that do not necessarily require changes in the manuscript.

The authors reply that there was no test of linearity available to test whether the use of parental interest and help with homework as linear variables in table 3 was appropriate. I would, however, rerun some of the main analysis in table 3 with using these variables as categorical variables just to check that there are no other types of relationships behind the observed results e.g. U- och J-shaped associations (for instance, that very high and very low parental interest has negative association with mental health trajectories but medium interest has a positive association).

The other one is just a general comment. There are 120 odds ratios (OR) in table 3 which the main results of the study are based on. At 95% confidence level about 6 of them may, by chance, produce false results. There are no ORs that seem rather odd, so maybe this is not a problem in this study, but it is always good to be aware of the risk when doing multiple comparisons.

**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.

**Declaration of competing interests:**

I declare that I have no competing interests.