Reviewer’s report

Title: Prevalence and correlates of positive mental health in Chinese adolescents

Version: 0 Date: 21 Jul 2017

Reviewer: VIVIANE STRAATMANN

Reviewer's report:

Title:

1. I do suggest to change the word 'determinants' for 'correlations', in the case of cross sectional study design. The term 'determinants' is usually related to longitudinal associations and causality issues.

Abstract:

1. I do suggest to change the word 'determinants' for 'correlations' (to be applied on whole manuscript);

2. Which were the 'sub-groups' mentioned?

3. The estimate (odds ratios) should be reported on methods;

4. A description of variables, or group of variables included in the analyses will be wealth.

5. The main estimate results - OR CI 95% - should be presented;

6. I do recommend rewrite the conclusion highlighting the main findings without discussion's assumptions.

Introduction:

1. page 3, line 15: The 'hedonic' and 'eudaimonic' approaches may be better introduced on the text as well as better explained.
2. page 3, line 24: What the authors mean with 'well-being'? Is it a synonymous of positive MH?

3. page 3, line 54-59: In which population and age groups has it been tested?

4. I do recommend to remove the Table 1 of the manuscript. The information presented on could be summarised in a few sentences- showing studies realised with adolescents;

5. page 4, second paragraph: I advice to include further information about the studies cited on that paragraph (longitudinal X cross sectional);

6. As you have removed Table 1, I suggest to present a figure of adapted conceptual frameworks for the evaluation of positive MH and correlations for children and adolescents. The textual explanation could be removed.

7. page 5, line 39: A reference should be included "...but also linked to positive outcomes in life (\?)."

8. page 5 line 40: I suggest to change the word "inequalities" for "differences";

Methods:

1. It will be wealth more information and contextualisation about the location, area and population size of the city of Weifang;

2. Was it a probabilistic sample? Could you clarify the sample selection?

3. Was the response rate 100%?

4. Was there performed a pilot study?

5. Were there followed all recommendations for a trans-cultural adaptation of the used questionnaire? Recommended literature is attached.
6. Was there any special reason for the use of the Swedish questionnaire? If there was, it should be justified.

7. Was there any validation study of the measure of 'perceived family economic'? If there was not, include it on limitations.

8. Page 7, third paragraph: First sentence can be removed. Further explanations about the cut offs used for variable's categorisation will be wealth.

9. The word 'category suits better the ' level' in this context;

10. The presentation of the Alpha Cronbach should be contextualised.

11. Page 8, second and third sentence: These sentences could be placed in the end of the paragraph that present the instrument (page 7 in the end of the first paragraph);

12. Was the 'Enter method' the same of step-wise selection method?

Results:

*The results could be rewritten and better presented, showing the estimate values and significance results in parentheses.

*The authors should be aware about the interpretations of the statistical tests applied. Results from Chi Square test may be interpreted saying there is/there is not an association between variables. OR interpretation may say: "e.g. those with teacher support were 1.43 more likely to had a positive MH, comparing with those without teaching support".

*Table 1: I suggest to remove chi square test from title and put as a legend of the table; total row could be removed; information about the missing data should be present and explained before on the text of results session.

*Table 1: It will be better presented if the total 100% would presented for each variable. It was presented 100% for each category (e.g gender female 57.9/ male 56.4%);

*Page 10, It is more convenient to highlight the significant results rather than the not significant.
Discussion:

1. The third sentence of the first paragraph was not aimed for the current study. I suggest to remove the sentence or put it in another context of the discussion;

2. page 14, Second paragraph: I suggest to compare the findings with studies among children and adolescents and/or Chinese population.

3. First sentence on the third paragraph: "..multivariate logistic regression analyses..." was not appropriated for discussion.

4. The well-being is usually worst among adolescent's girls than in boys. Was correct the affirmation about the positive MH be high prevalent among girls?

5. The discussion about the BMI and body satisfaction should take account the reference category used on the logistic regress. I recommend to reanalyse the results putting the category 'overweight/obese' as reference rather than 'thinness'.

6. The study design may be included such as a limitation of the study, since was not possible to assess the ’determinants' and make further assumptions regarding causality and potential bidirectional associations.

Conclusion:

1. I suggest the inclusion of longitudinal studies as future researches in this field.

Ethical: I suggest to present the official number of the ethical approval.
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.

Yes

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 am able to assess the statistics

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