Reviewer's report

Title: A cluster-analytic approach towards multidimensional health-related behaviors in adolescents: the MoMo-Study.

Version: 1 Date: 2 November 2012

Reviewer: Maria Paula P Santos

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The study aim to identify health-related behavior patterns in German adolescents with focus on physical activity, media use and dietary behavior, according to socio-demographic correlates of the identified clusters and association with overweight/obesity. The research question is cleared stated, and the methods of the study are described quite thoroughly. The cluster analysis helps to identify adolescent subgroups of specific behavioral patterns that could be target for interventions that aim to promote healthy lifestyles.

Major essential revisions

One issue that deserves more examination is whether the cluster scores present a potentially useful summary measure of those specific behaviors among German adolescents.

Another aspect that could be more explored is that although physical activity level and media use may not be interrelated, cluster 3 suggests a relation between high media use and inactivity, this could be an interesting point to add to discussion.

Authors also suggest that high healthy nutrition score may not be related to lower overweight prevalence. In fact, cluster 2 have a higher prevalence of overweight (and girls), some literature also pointed the importance of “dieting” among adolescent girls (HBSC reports). That could also be added at discussion section.

Minor revision

Page 4 last paragraph: please correct punctuation

Table 1: please use dots instead of commas

Level of interest: An article of importance in its field

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