Reviewer's report

Title: Influence of health behaviours on the incidence of infection and allergy in adolescents. The AFINOS cross-sectional epidemiological study.

Version: 1 Date: 1 October 2013

Reviewer: Amelia Marti

Reviewer's report:

The manuscript is interesting but needs some improvement.

Firstly, the writing of the text should be revised along the manuscript.

Secondly, new statistical analysis should be performed.

The authors should calculate the z score for BMI (SDS-BMI), as a more accurate index than BMI for obesity in the adolescent population. This new information should be included in table 1 and also is to be considered for the adjustments: age, sex or SDS-BMI. For instances in table 2 and 3 a new column or line should be included after the adjustment for age, sex and BMI-SDS.

Moreover in figure 1 the confidence interval should be drawn and indicated for each measurement. It is not clear whether this model was also sex and age adjusted.

In table 4 refers only to infection symptoms or also to allergy symptoms?

More details are to be included in the Data analysis section (page 8-9). Specifically, the factors included in the fully adjusted model (lines 17), the variables that were log-transformed (p.9, line 2), the explanation of the meaning of the third model (p.9, line 6).

Level of interest: An article of importance in its field

Quality of written English: Needs some language corrections before being published

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:

No, to all of the above.