Reviewer's report

Title: Prevalence of the metabolic syndrome in Luxembourg according to the Joint Interim statement, estimated from the ORISCAV-LUX study

Version: 1 Date: 1 October 2010

Reviewer: Marly A Cardoso

Reviewer's report:

The manuscript reports the prevalence (overall, gender- and age-specific rates) of Metabolic Syndrome (MS) in a probabilistic sample of European adults residing in Luxembourg and the agreement between different criteria for MS definitions. The manuscript is well-organized, the methods are appropriated and well described. The limitations of cross-sectional study is clearly addressed in the discussion section. I have the following suggestions in the data analysis and presentation:

- Statistical analysis: considering the cross-sectional design of the present study, the use of Poisson regression models for prevalence rates are recommended.
- The results presented in Table 3 should be reported in the text; results from Figures 1 and 2 could be combined in just one Figure for a more concise version of the manuscript.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

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

Declaration of competing interests:

I declare that I have no competing interest.