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: 22 September 2010

Reviewer: Roya Kelishadi

Reviewer's report:

The paper provides novel information and has a good rationale supported by sophisticated statistical analyses; however some revisions should be taken into account:

• Some keywords are not compatible with MeSH.
• In the abstract's results, it is stated: "The 10-year predicted risk of CHD by Framingham risk score (FRS) did not depend on the threshold used." Without any previous description in Methods and in Background.
• The first paragraph of the Introduction section is repeating facts for readers, it can be summarized to just one sentence by citing related references.
• Similarly, the second paragraph of Background section are well-known facts that can be summarized in 1-2 sentences.
• Although the whole methodology is referred to a previous publication of this study, but more details should be provided about the sampling methods, validation of questionnaires and the laboratory equipment.
• The following statement can be deleted from the Discussion section: "To allow international comparison, the age-standardized MS prevalence according to the JIS-94/80 was estimated to the World Standard Population, showing nearly similar findings (26.6 %) (data not shown)."
• The first paragraphs of the Discussion section are a repetition of the Introduction section. The Discussion needs more interpretation and suggestion.

Minor comments:

• The English writing should be much improved.
• The references are cited in different manners throughout the text; in addition to disharmony, the presentation is incorrect in some places, e.g. references 1 to 6 cited separately.
• The references style is not consistent with the journal instructions.

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:
'I declare that I have no competing interests'