Reviewer’s report

Title: Is the Scottish population living dangerously? Prevalence of multiple risk factors: the Scottish Health Survey 2003

Version: 2 Date: 19 December 2009

Reviewer: Wichai Aekplakorn

Reviewer’s report:

This is a well-written manuscript. There are some points that need clarification and minor revisions.

Introduction
1. The first sentence of the paragraph seems unnecessary.

Method
1. Please give more description about the sampling method and sample size, though this has been published elsewhere.
2. Page 4, how much for a unit of alcohol drink in term of gm ethanol.
3. Page 5, the author missed to provide a reference for the Hosmer-Lemeshow test.
4. Does all the analysis use statistical method for complex survey design?, please also give more information about statistical weighting.
5. It’s not clear how the SIMD derived.
6. Please check the last sentence of page 5 whether it is correct that “physical activity less common among men”.
7. Readers might wonder whether the pattern of determinants of multiple risk factors differs between male and female in the logistic regression. In case, separate model by sex should be presented.

Discussion
8. The discussion is well-written, one point on page 8, it is not clear that the author wrote “any participation bias would likely to contribute to even greater association with socioeconomic factor”. Would the author clarify the direction of association and why?

Level of interest: An article of outstanding merit and interest 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'