Reviewer's report

Title: Association of self-reported physical activity patterns and socio-demographic factors among normal-weight and overweight Japanese men

Version: 1 Date: 29 November 2011

Reviewer: Masamitsu Kamada

Reviewer's report:

Major Compulsory Revisions (2):

1. What are the hypotheses and underlying mechanism in this study? Why did authors think the socio-demographic correlates of physical activity differed by weight status? There is no exact description. In addition, there is no exact detail or example about strategies and intervention approach those could be induced by the result of this study. I think this point is essential for readers to assess the impact of this paper to the public health field.

2. Did authors calculate the statistical power of each subgroup analysis (normal-weight and overweight)? Please discuss and conclude carefully the difference between normal-weight and overweight. The presented differences in significance of correlates might just reflect the differences in statistical power to detect weak to moderate associations between normal weight (n=979) and overweight (n=441) men. It seems unreasonable to interpret that “associated correlates in overweight men were different from those in normal-weight men” (P. 10-11).

Minor Essential Revisions (4):

3. Table 1.
   “SD = standard deviation” to Table 2.

   Change from “Furthermore” to “However.”

5. P. 9
   Please correct the usage of conjunction.

6. P. 13 L.13 (Author’s contributions)
   Correct “..”

Discretionary Revisions: no

Level of interest: An article of limited interest

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.