Reviewer's report

Title: The Correlates of Leisure Time Physical Activity among Adults in a City in Southern Taiwan

Version: 1 Date: 13 October 2010

Reviewer: ALMUDENA SANCHEZ-VILLEGAS

Reviewer's report:

This manuscript analyses the association between leisure time physical activity and different factors such as demographic, biological, emotional, behavioural, social or cultural factors in a sample from Southern Taiwan.

To assess the correlates of practising physical activity during leisure time is important to plan and design Public Health strategies to increase this beneficial conduct among adult populations. However, some limitations deserve careful attention.

1. English should be revised by a native speaker.
2. Has physical activity assessment been validated?
3. From 1638 participants in 1996, only 762 responded to the questionnaires 10 years later. The retention rate of the sample was really low. Maybe, the 762 participants could have a different profile. So, the results could not be extrapolated to the total population of cities from the Southern Taiwan.
4. Why did the authors use logistic regression analyses? Why did not the authors consider physical activity as a continuous and fit a linear regression?

Minor comments

Abstract
1. Please, improve English
2. The background of the abstract belongs with the aim of the article
3. Add the values for the 95% Confidence Intervals in the results section.

Material and methods

Please, check the classification for the social class. Some characters are not recognized in the text.

Statistical analysis

Please, better explain the phrase “Because of the sweded distribution and for practical reasons, we divided.....”

Results

Change +- for (SD:)...
Table 2
Please, explain which the differences between column 1 and 2 are. Crude and multivariate OR?
I suggest to add a new category with an OR value of 1 for the references categories.
Not use vs.
For example:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>1(ref.)</td>
</tr>
<tr>
<td>Female</td>
<td>1.34 (0.89-2.02)</td>
</tr>
</tbody>
</table>

**Level of interest:** An article whose findings are important to those with closely related research interests

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

**Statistical review:** No, the manuscript does not need to be seen by a statistician.

**Declaration of competing interests:**

None