Reviewer's report

Title: Physical activity and health related quality of life

Version: 3 Date: 3 July 2012

Reviewer: Iva Tendais

Reviewer's report:

Although the authors of this manuscript have made significant improvements on the original version following the recommendations of the reviewers, a number of questions remain to be addressed.

Major Compulsory Revisions

Excessive information is provided on the “covariates” of PA in the methods section. Authors included 15 references and formulated hypothesis on this topic even if this is was not the main objective of the study. In addition, the authors include in the results section a part on other variables than PA (socio-demographic, medical and psychological) that predicted HRQoL (“Other people associated with better HRQoL included high income earners, …”). References do not appear in the text sequentially ([…, 16] … [29-44], [17]). The included coefficients in the text on the results section should be represented by the appropriate symbol).

Minor Essential Revisions

Table 2 is not self-explanatory. Footnotes are needed to understand what models 1 to 4 refer to. Estimates of “covariates” could be omitted so direct the focus to PA estimates. Authors could add a footnote saying that that all models are adjusted to age, income, …

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: Yes, but I do not feel adequately qualified to assess the statistics.

Declaration of competing interests:

'I declare that I have no competing interests'