Reviewer's report

Title: Association of total daily physical activity with disability in community-dwelling older persons: a prospective cohort study

Version: 2 Date: 26 July 2012

Reviewer: Tamara L Hayes

Reviewer's report:

This is a well-written article and the findings, although not surprising, provide evidence of the importance of daily movement to maintaining functional independence. However, the data that the authors have at hand would have permitted a much more interesting evaluation of the relative benefits of maintaining a medium level of activity versus exercising with moderate intensity 3-5 times per week (a common health recommendation).

Minor Essential Revisions
1. The authors do not report how they corrected for multiple comparisons in their analyses. This should be stated.

Discretionary Revisions
2. A very informative addition to your data analysis would be an examination of the relative importance of variance of activity over days (e.g. # days with counts > 50% greater, or just variance over the entire 2 weeks)

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

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:
I declare that I have no competing interests