Reviewer's report

Title: Correlates of objectively assessed physical activity and sedentary time in children: a cross-sectional study (The European Youth Heart Study)

Version: 2 Date: 9 June 2009

Reviewer: Trish Gorely

Reviewer's report:

Minor essential revisions
page 3 line 2: ...and reduce time being sedentary...
page 3 para 2 line 5-6: to influence PA and sedentary behaviour
page 3 para 2 line 6: Unstructured outdoor play
page 3 para 2 line 7-8: ...suggested to influence PA levels in children and are thus...
page 3 para 2 line 10: TV viewing has...
page 3 para 2 line 11: and a reduction in sedentary behaviour, through limiting screen time to no more than 2 hours per day, has....
page 4 para 1 line 1: ...unstructured outdoor play...
page 4 para 1 line 4: ...differ in sample size, age groups, and assessment method of PA...
page 5 para 1 line 12: ...obtained from the parent or legal guardian of each...
page 5 para line 14: ...local research ethics committees within the study ...
p岁6 para 1 line 2: ...administering to a large population...
page 6 para 1 line 3: ...have been shown...
page 6 para 1 line 11: do you mean the following: Of the 1327 children included in the present study 22% provided 3 complete days of data (ie >= 600 min each day) and 78% provided 4 complete days. ?
page 7 para 1 line 4: ...and was partly based...
page 8 para 2 line 11: ...stratified by age and included gender...
page 9 para 3 line 1: The proportion...
page 9 para 3 line 12: ...at the MVPA intensity level and spent significantly less time being sedentary...
page 10 para 1 line 2: ...less time being sedentary...
page 10 discussion line 1: should it be ...selected behavioural correlates?
page 10 discussion line 3: should it be differentially rather than differently?
page 11 para 1 line 2: directly influence time spent being sedentary...
page 11 para 2 line 11: ...such a change in PA behaviour.

page 11 para 3: you make a comment about PE probably becomes an important opportunity for increasing time in MVPA, but in your introduction you comment that the majority of PA is low intensity PA. Something is needed here to ensure consistency.

page 12 para 1 final sentence: Not withstanding this, as a change....may still be beneficial.

page 12 para 2 line 1: ...TV viewing supports previous...

page 12 para 2 line 4: ...depending on the age groups...

Conclusions, line 5: ...TV time were not significantly...

conclusions , line 8: ...directly influence time spent sedentary...

conclusions, final sentence: ...spent sedentary need further...

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

**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