Reviewer's report

Title: Screen-based media use clusters are related to other activity behaviours and health indicators in adolescents.

Version: 1 Date: 19 September 2013

Reviewer: Trish Gorely

Reviewer's report:

This is a well conducted interesting study exploring whether adolescents clustered on the basis of screen-based media use differ on other behaviours and health indicators. A cross-sectional design is used employing data from the longitudinal Western Australia Pregnancy Cohort study when participants were 14 years of age.

Major compulsory corrections

I wonder whether it is possible to include a longitudinal element to the analysis, particularly where health outcomes are discussed (for example, what is the relationship between clusters of behaviour now and health outcomes or behaviour in the future). Such an approach would represent a stronger design. If it is not possible to do this from the data set then this should be explained.

While the authors acknowledge the limitation of the changing nature of media use and methods of consumption since the data was collected in 2003-2006, the implications for the utility of the current results should be discussed.

Minor essential revisions

Please clarify whether the 643 participants had to have complete data for all variables of interest (e.g., MARCA days and 3 weekday +1 weekend for pedometers?)

More explanation of internalising and externalising behaviour would be helpful.

para 5 of introduction: clarify age and gender of participants in all exemplar studies

measures of psychological health section: should the subheading for Becks Depression Inventory say Becks Depression Inventory for youth?

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 I have no competing interests