Reviewer’s report

Title: Comparison between logbook-reported and objectively-assessed physical activity and sedentary time in breast cancer patients: an agreement study

Version: 0 Date: 07 Nov 2016

Reviewer: Gemma Lyall

Reviewer's report:

General Comments

This study effectively assessed the agreement between an objective (accelerometer) and a subjective (log books) measure of physical activity in breast cancer patients. It was concluded that these methods do not show high levels of agreement and a subjective method cannot be used in place of an objective method. It was correctly surmised that the best way to assess physical activity in this population may be to combine both objective and subjective methods.

Introduction

Line 96 Would levels of agreement differ depending on whether patients are currently undergoing treatment or whether they have completed treatment? This needs to be made clear

Methods

Line 113 "from engaging" change to engagement

Line 113 What is breast cancer stadium 111b and why were these patients excluded?

Table 1. A lot of characteristics are included in Table 1 which are not used to in the results section, e.g. occupation and level of education, and are therefore unnecessary.

Line 143. How valid is wearing the activity monitor on the upper arm compare to the hip where most other accelerometers are worn?

Line 158. Whilst these cut points are common standards, are they applicable to patient populations?
Data Analysis. Was the normality of data assessed to determine whether parametric or non-parametric tests were required? Instead of a paired T-test should a one-way ANOVA not have been conducted?

Results

Very large standard deviations across all results, is this normal with regards to PA data using accelerometers?

Discussion

Line 239. Why was it important to assess physical activity in patients currently undergoing treatment?

Line 273. Spelling mistake "statistically"

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I recommend additional statistical review

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable
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