Reviewer's report

Title: Lean Body Mass: The Development and Validation of Prediction Equations

Version: 2 Date: 26 May 2013

Reviewer: Aldo Scafoglieri

Reviewer's report:

Minor Essential Revisions:

Abstract
Lean body mass is abbreviated three times please correct

Introduction
page 4: Please provide reference year for Hilmer et al. ...
Please correct Heitmann and Jamahastian to Heitmann and Janmahasatian

Methods
Please try to avoid too many abbreviations
page 7: What does DC stand for? or do you mean VC instead?

Results
page 10: What does DC stand for?
page 11: please correct Durenberg to Deurenberg

Discussion
page 13 line 1: omit the abbreviation '(PEs)'
page 13 2nd paragraph: The authors state that the loss of subcutaneous tissue in older people may affect accuracy of skinfold measurement. How does the accumulation of adipose tissue under the fascia generalis affect accuracy? Please explain.
Please elaborate on why the majority of PEs overestimated LBM by DXA.

References
Please provide year of publication for reference 1,2,5,7

Table 1
Please omit abbreviation '(VC)' from title
Provide statistical significance level for Concordence R

Table 2,3,4
Please add CI, SD, R to table captions
Please omit VC from caption
Please correct DEXA to DXA
Please write DXA in underscript when used in conjunction with LBM. Please also do the same for PE1, PE2, PE3, PE4

**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