Reviewer’s report

Title: ANTHROPOMETRIC MULTICOMPARTMENTAL MODEL TO PREDICT BODY COMPOSITION IN BRAZILIAN GIRLS

Version: 0 Date: 18 Sep 2017

Reviewer: César Leão

Reviewer's report:

This seems an interesting article, addressing a topic of extreme utility for the daily life of professionals who deal with limitations in the methods for assessing body composition.

The possibility of measuring various components of body composition through an easy-to-apply method always presents its difficulties and limitations.

In that sense I have only a few comments to make:

1- The first 2 references are repeated. I suggest you confirm, and if so, delete one of the two.

2- In page 4, line 21-22 - What references do you use to make this statement?

3- Regarding the sample, we know that hydration affects DXA assessment (Toomey et al, 2017) and that the menstrual cycle in women causes changes in the hydration state (Sharma et al, 2012). Were these factors taken into account at the time the studies were performed in order to minimize the error in the analysis?

Regarding the revision of English in the manuscript, I encountered some errors. I therefore suggest a review by a English speaking native.

Page 3, line 15 - "children is not easy to..."

Page 4, line 19-20 - "circumferences" is used twice

Page 4, line 21-22 - "These alternatives are more convenient due to their low costs, their low level of personnel training, that they are minimally invasive and have a good scientific credibility."

Page 4, line 24 - "bone from fat or muscles..."

Page 8, line 7 - "Then β parameters (multivariate) were determined"
Page 9, line 7 - "Data not shown"

Page 11, line 10 - "have been used"

Page 12, line 2 - "no significant changes are found"

Page 12, line 8 - "Several factors can affect"

Page 13, line 15 - "generalizability" by "generalization"

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 am able to assess the statistics

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

Needs some language corrections before being published

Declaration of competing interests  
Please complete a declaration of competing interests, considering the following questions:

1. Have you in the past five years received reimbursements, fees, funding, or salary from an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

2. Do you hold any stocks or shares in an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?
3. Do you hold or are you currently applying for any patents relating to the content of the manuscript?

4. Have you received reimbursements, fees, funding, or salary from an organization that holds or has applied for patents relating to the content of the manuscript?

5. Do you have any other financial competing interests?

6. Do you have any non-financial competing interests in relation to this paper?

If you can answer no to all of the above, write 'I declare that I have no competing interests' below. If your reply is yes to any, please give details below.

I declare that I have no competing interests

I agree to the open peer review policy of the journal. I understand that my name will be included on my report to the authors and, if the manuscript is accepted for publication, my named report including any attachments I upload will be posted on the website along with the authors' responses. I agree for my report to be made available under an Open Access Creative Commons CC-BY license (http://creativecommons.org/licenses/by/4.0/). I understand that any comments which I do not wish to be included in my named report can be included as confidential comments to the editors, which will not be published.

I agree to the open peer review policy of the journal