Reviewer’s report

Title: Thyroid function, body mass index, and metabolic risk markers in euthyroid adults: a cohort study

Version: 1 Date: 02 May 2019

Reviewer: Fernando Bril

Reviewer's report:

The authors did a great job answering to the reviewer comments. Just a small issue remains:

- Table 2 shows several weak correlations with r coefficients as low as 0.002 that actually were statistically significant due to the large size of the cohort. These significant p values DO NOT make the correlations clinically significant. This is the case for example, for ALL the correlations of fT4, and some of the ones for fT3 and the ratio. Therefore, the text should be rewritten mentioning absence of significant linear correlation when the r coefficient is low (especially if that low!). For example fT4 did not significantly correlate with BMI (look at the r of 0.073) regardless of the p<0.001. As it stands the text is misleading as it includes only the p values and suggests that every time the p<0.05 there was a significant correlation. This is a clear example of statistical significance vs. clinical significance. In practical terms, although this is questionable and other cut offs can be chosen, a r<0.10 should be interpreted as lack of linear correlation.

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
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