Reviewer’s report

Title: Calf circumference as an independent indicator to insulin resistance and non-alcohol fatty liver disease: the REACTION study

Version: 0 Date: 09 Oct 2016

Reviewer: Alexander Kokkinos

Reviewer's report:

This is a quite interesting study, which examines associations between calf circumference, NAFLD, and insulin resistance. Calf circumference is presented as an index for the presence of these conditions.

Minor Comments:

1. In page 6, lines 39-42, the authors say that they used the 2005 ATPIII criteria for the metabolic syndrome. Instead, they should have used the 2009 consensus criteria (Circulation. 2009 Oct 20;120(16):1640-5).

2. In the Laboratory methods, LDL-C was purportedly measured with an autoanalyzer. Since the Friedewald formula is usually used for its calculation, the authors should mention if this was indeed the case.

3. Page 10, lines 25-31: Reference #30 cannot be considered "recent" (it is dated from 1999). Furthermore, reference #35 does not appear anywhere in the text.

4. Although the English is generally quite good, some editing is needed. Examples: page 4, lines 36-42, page 9, line 6 ("Excluding those with diagnosed diabetes yield similar results"), page 10, line 12 ("association may partly due to difference"), page 10, lines 50-56.

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.

Unable to assess
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

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