Reviewer’s report

Title: Association of rs662799 in APOA5 with CAD in Chinese Han population

Version: 0 Date: 05 May 2017

Reviewer: Alexandre Stewart

Reviewer's report:

The manuscript by Chen et al. titled: "Association of rs662799 in APOA5 with CAD in Chinese Han population" examined the association of 7 SNPs with CAD in a cohort of 435 CAD patients and 196 non-CAD controls. This sample size is underpowered for genetic associations. A nominal association was found between rs662799 in APOA5 and CAD, as well as with rs5882. This observation is not new for Han Chinese, it has been reported by a number of investigators, including the study by Ye et al. (2015) Positive Association between APOA5 rs662799 Polymorphism and Coronary Heart Disease: A Case-Control Study and Meta-Analysis. PLoS ONE 10(8): e0135683. This study was not cited and should be cited.

The nominal associations were apparently not adjusted for multiple testing. Given that 7 SNPs were tested, the threshold for significant association, assuming each variant is independent, after Bonferroni correction is p<0.05/7 or p<0.007. Thus, unfortunately, none of the observed associations are significant. The authors should consider obtaining larger sample sizes, or to combine their results with other studies.

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

No

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.

No

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.
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