Reviewer’s report

Title: A study of the association of rs12040273 with susceptibility and severity of coronary artery disease in a Chinese Han population

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Reviewer: Emanuela Bostjancic

Reviewer's report:

In an article by Yang et al, authors described association of one single nucleotide polymorphism to the susceptibility and severity of CAD in Chinese Han population. Study was performed as a case-control study on 199 CAD patients and 112 non-CAD controls. However, there are certain suggestions that would improve the manuscript.

- One of the limitations of the study that should be mentioned in the Discussion section is that case and controls are not age and gender matched.

- Another limitation of the study would be a postulated cut-off »less than 30% of narrowing of large branching as non-CAD controls«. Could you perform a reference? Since Gensini score defines stenosis severity of < 25% and 26-50% and these two categories (30% and 25%) are overlapping each other.

- For elevated amount of HDL-C in healthy adults there are some publications that gender and age influence blood amount of HDL-C. Therefore, although on a small cohort of samples, it would be of great importance to perform distribution of genotype among sex and age in control population. And re-calculate all the statistics.

- More detailed description of genotyping.

- Based on these results, it is overestimated to conclude that this SNP is preventing for CAD susceptibility.

- There are numerous grammatical errors.

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.

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?
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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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