Reviewer’s report

Title: Association of the single nucleotide polymorphism in chromosome 9p21 and chromosome 9q33 with coronary artery disease in Chinese population

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Reviewer: Marketa Sjögren

Reviewer’s report:

In this manuscript the authors investigated whether two of the established SNPs on chromosome 9 associated with CAD in other populations also associated with CAD in Chinese Han population.

Major comments:

In Study population, the authors write that the population were screened to evaluate suspected and established CAD, is it so that the controls were taken from that pool of "suspected" CAD? In that case, on what bases were they suspected? Can you really consider them to be healthy in that case? Does that affect the results in any way? Do these individuals then have the same risk of CAD as the background population or should they be considered high risk? In that case, the results could be affected. This needs to be discussed and clarified.

In the statistical analysis section, page 4 rows 33-35 there is a description of a method used to investigate disease severity but no such results are presented, why?

Minor comments:

While describing the study population, the authors write that several patients were excluded, is this studied population drawn from a larger set of patients?

In several places in the results section it states hyperlipemia instead of hyperlipidemia, please correct.

In the results section on baseline characteristics and enrollments there is a parameter called "serum usea nitrogen", in table one the parameter is BUN (blood urea nitrogen), so which is it, serum or blood? Also in the table 1 explanations there it says that BUN is blood urine nitrogen, please correct.

In the results, the table references are not correct.

In results section rs1333049 is an independent determinant of the incidence of CAD, the authors write that they adjusted for traditional risk factors and also rs1333049. It is true that in a
multivariate analysis all variables are entered together, however it is not customary to write that you adjust for the SNP that is your major question.

In the discussion, page 6 row 14, the authors start the sentence with alternatively, this is a wrong expression, on other hand, would be more appropriate.

In table 1, the label reads cholesterol, is this total cholesterol (as used in the text)?

**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.

No

**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:

Acceptable

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