Reviewer's report

Title: Chromosome 1p13 genetic variants antagonize the risk of myocardial infarction associated with high ApoB serum levels.

Version: 2 Date: 29 June 2012

Reviewer: Ioanna Tzoulaki

Reviewer's report:

This paper examines the association between SNPs that have been associated with MI and lipid levels and aims to examine interactions between those SNPs and lipids levels in association with MI.

Major Compulsory Revisions

The authors should explain why they selected the examined SNPs among others in the 1p13 locus. Similarly, they should explain why the apoB biomarkers was selected and not other lipid fractions.

There is no information on the population, number of cases, age etc. in the abstract. Please add relevant information.

Interactions as hard to measure. Please discuss the owed of your study to identify interactions, please add more on your study limitations.

You give the median and IQR values however the phenotypes studies (cholesterol) are usually normal distributed. In addition, you perform logistic regression which is a parametric test. Why did you do initially non-parametric tests?

Minor Essential Revisions

Cases and controls are matched for age, why do you further adjust for this?

Please include the OR results in main text.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.