Reviewer's report

Title: Validation study of candidate single nucleotide polymorphisms associated with left ventricular hypertrophy in the Korean population

Version: 1 Date: 10 November 2014

Reviewer: Grzegorz Placha

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Major Compulsory revisions:
1) The authors claim, that their manuscript reports results from a replication study in which a small number of SNPs previously associated with left ventricular mass index (the HyperGen Study, Arnett DK et al., BMC Med Genet. 2009) are evaluated in Asian population. However, The HyperGen Study was performed on subjects with hypertension and in the presented manuscript the general population (age > 44) was studied, where the prevalence of hypertension was 44.3%. The separate analysis in the subgroup of individuals with hypertension should be performed.

2) No clear evaluation of the significance of the findings is indicated. In the Statistical Analysis the authors state, that p-values <0.0056 were designated as significant based on the correction for multiple comparisons, but it is not clear if the correction was applied to the results presented in Table 4 and 5.

3) The authors performed multiple linear and logistic regressions using an additive genetic model and data are presented in Table 4 and 5, but the data presented in Figure 1 were obtained from a dominant genetic model, and there is no information how the best genetic model was chosen.

Minor essential revisions:

The last sentence in the Abstract and the second sentence in the Statistical Analysis are unclear.

Discretionary Changes:

none

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

Quality of written English: Needs some language corrections before being published

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

Declaration of competing interests:
I declare that I have no competing interests