Reviewer's report

Title: Associations of Complement Factor B and Complement component 2 Genotypes with Subtypes of Polypoidal Choroidal Vasculopathy

Version: 2 Date: 29 March 2014

Reviewer: Feng Wen

Reviewer's report:

The author presents a genetic association study to assess whether C2 AND CFB genotypes were associated with subtypes of PCV in a Japanese cohort. They found some genetically difference between polypoidal CNV and typical PCV.

However, the author didn’t perform the statistical analysis in a correct way. They use 2*2 contingency tables and 2-sided Fisher’s exact test to calculated distribution of alleles and genotypes respectively. In this way, at least Bonferroni method should be used to correct the multiple comparisons. After corrections, some p values may become insignificant.

Since the author assumed that polypoidal CNV were genetically and histopathologically close to tAMD, it may be better to supply the statistic data of the four SNPs in tAMD patients. Moreover, the author may need to state clearly the meaning of differing polypoidal PCV from tAMD.

In addition, the results of the typical AMD study should be provided to make the article more persuasive.

Level of interest: An article of limited interest

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

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:

I declare that I have no competing interests'