Reviewer's report

Title: Methionine synthase A2756G polymorphism predicts ulcerative colitis and methylenetetrahydrofolate reductase C677T pancolitis, in Central China

Version: 1 Date: 17 November 2007

Reviewer: Elias Zintzaras

Reviewer's report:

The authors should analyze the data in the following way: For each polymorphism, to calculate unadjusted OR with 95% C.I. for susceptibility to UC (or extensive UC) for the allele contrast, the dominant and recessive model of the minor allele. Then, for the same models to calculate adjusted OR after correcting for clinical and demographic characteristics (not used in matching). Finally, an association based on haplotypes and combined genotypes should be tested. Thereafter, the presentation and interpretation of results should be accordingly to the analysis.

The sample size should be calculated taking into account the prevalence of the minor allele of the most commonly investigated polymorphism.

Was HWE tested in the controls or cases? How the test was powerformed? What are the p-values?

What next?: Unable to decide on acceptance or rejection until the authors have responded to the major compulsory revisions

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

Quality of written English: Not suitable for publication unless extensively edited

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'