Reviewer's report

Title: MTHFR C677T and MTR A2756G Polymorphisms and the Homocysteine Lowering Efficacy of Different Doses of Folic Acid in Hypertensives Chinese Adults

Version: 1 Date: 3 September 2011

Reviewer: Ke Hao

Reviewer's report:

RE: MTHFR C677T and MTR A2756G Polymorphisms and the Homocysteine Lowering Efficacy of Different Doses of Folic Acid in Hypertensives Chinese Adults

In a well-control clinical trial setting, the authors investigated the effect of two MTHFR polymorphisms on efficacy of folic acid in reducing homocysteine level. The results are convincing and have direct clinical impact, given homocysteine as a risk factor for stroke. The study would be interesting to the audience of the Nutrition Journal, and it can serve as a good example for personalized medicine.

Minor essential revision

1. Table 1, the footnote stated, "* Significantly different from the CT or CC genotype", however, there is no "***" presented in the table. Does it mean no significant difference? However, the folate and homocysteine level were very different among C677T genotypes.

2. Table 1 and Table 2, for sample traits, e.g. homocysteine, the mean and median values were quite different, indicating the trait value follows non-symmetric distributions, which may bias the ANOVA analysis. The authors should try (1) transformation to normal distribution or (2) non-parametric method to confirm the statistical analysis results.

Level of interest: An article of outstanding merit and interest in its field

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 no competing interests