Reviewer's report

Title: Methylenetetrahydrofolate reductase gene variant (MTHFR C677T) and migraine: a case control study and meta-analysis

Version: 3 Date: 18 April 2011

Reviewer: Michael Bjørn Russell

Reviewer's report:

I have only two comments
On page 15. The authors are right that the genotype in quest increase the risk of MA by 42%. However, only <15% of people from the population have this genotype. Thus, the effect of the genotype in quest is in fact only a 6% increased risk of MA (42%/(100%/15%)) for the whole population. Thus, it has a minor effect on MA.

I do not agree with the authors. MO do not have an effect. Thus, result of MO and MA is really not interesting, since the effect is based exclusively on the MA effect.