Reviewer's report

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

Version: 1  Date: 10 February 2011

Reviewer: Michael Bjørn Russell

Reviewer's report:

All data should be analyzed separately on MO and MA, i.e. in tables and figures data on MO should side by side and then data on MA.

Data on all migraine is uninteresting, since they are only significant due to the effect of MA and not due to MO

Some of the studies are quite small with wide CI

I would like the authors do discuss the importance of their findings in relation to MA as it only a very minor effect that is observed.

The discussion should be focus on methodological shortcomings of associations studies and not use to much emphasis on small studies N=22 as type 2 errors are likely is such small studies

Level of interest: An article of limited interest

Quality of written English: Acceptable

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

Prof. Russell