Reviewer's report

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

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Reviewer: Fernando Magro

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The paper “Methionine synthase A2756G polymorphism predicts ulcerative colitis and methylenetetrahydrofolate reductase C677T pancolitis, in Central China” related that methionine synthase and methylenetetrahydrofolate reductase are genes associated with risk and extent of ulcerative colitis. One of the gold marks of this paper is the homogeneity of UC population.

Major comments
1. The authors must put in discussion the biologic plausibility of these mutations in UC context.
2. Why MTHFR 677 TT and MTHFR 1298 AC are related to extension of UC and are not related to UC risk? Is an additive effect?
3. Is important to explore these mutations and some UC variables as activity of the disease, refractory to medical treatment, chronic activity and the immunosuppression needed, particularly the azathioprine response.
4. Is important to know the relationship between these mutation and the thrombotic events

What next?: Accept after minor essential revisions

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

Quality of written English: Acceptable

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

Declaration of competing interests:
I declare that I have no competing interests