Reviewer’s report

Title: B vitamins related to homocysteine metabolism in adults celiac disease patients: a cross-sectional study

Version: 2 Date: 17 August 2015

Reviewer: Maria Pia Villa

Reviewer’s report:

Dear Dr Hiromichi Kumagai,

here I am submitting a critical evaluation of the manuscript entitled “B vitamins related to homocysteine metabolism in adults celiac disease patients: a cross-sectional study”.

This is an interesting article which brings into discussion the nutritional status and serum concentrations of B vitamins involved in homocysteine metabolism in celiac patients.

This manuscript is written well, however I would suggest some points to improve it:

- Major Compulsory Revisions:
  In the section “Introduction” I would suggest to add MTHFR and MTRR gene mutations prevalence in the homozygous and heterozygous genotype, in general population. These is important to understand that homocysteine metabolism doesn’t only depend by serum concentration of B vitamins. Its prevalence, moreover, does not appear to be higher among celiac patients (Fabbri E, Rustignoli L, Muscari A, Puddu GM, Guarino M, Rinaldi R, Minguzzi E, Caio G, Zoli M, Volta U. Recurrent ischemic strokes in a young celiac woman with MTHFR gene mutation. World J Gastroenterol. 2012.14;18:3472-6).

- Discretionary Revisions:
  I would suggest to study MTHFR and MTRR enzyme activity in all enrolled patients, specially in two patients presented hyperhomocysteinemia.

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.