Reviewer's report

Title: Antioxidant intake among Brazilian adults - The Brazilian Osteoporosis Study (BRAZOS): a cross-sectional study

Version: 2 Date: 16 February 2011

Reviewer: Carlos C Chagas

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The manuscript have improved but still can not be accepted in the present form.

Major Compulsory Revisions:
Question 2 was not fully addressed. The authors did not explain why cupper was not evaluated. Moreover, despite their role in chronic disease prevention, both magnesium and folate are not considered as dietary antioxidants. Please see Bae and Choi Biol Trace Elem Res. 2010 Oct 27. [Epub ahead of print] and even the review cited by the authors (Clinical Nutrition (2005) 24, 172–183). Therefore, the ref# 14 did not support the idea that magnesium and folate merit particular attention. If there are studies that specifically describe and support folate as an antioxidant, they should be cited in the 4th paragraph (introduction section).
Question 4 was also not fully addressed. The authors did not explain if subjects using dietary supplements were excluded. Furthermore, the authors should describe the statistic method used to correct possible confounders.
Question 13: the text is confusing. The authors state that "With the exception of vitamin C there were no significant differences in intakes of all nutrients between genders." However, they describe next that "Men had a higher mean intake of most elements (vitamin E, folate, zinc and magnesium), while women had higher intakes of vitamin A and selenium (Table 2)". If the author want to publish the manuscript, this kind of information should be correct. Moreover it seems that the manuscript was not revised by the authors before send it to the journal which is definitely unacceptable.

Discretionary revisions: in order to support the data presented in Table 6, the authors could check data from POF (2002-3) that describes the wheat flour intake in Brazil (e.g. people who live in the South have higher intake of wheat flour when compared to the ones who live in...
Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.