

Reviewer's report

Title: Nutrient intakes related to osteoporotic fractures in men and women - The Brazilian Osteoporosis Study (BRAZOS)

Version: 1 **Date:** 5 October 2008

Reviewer: vera VLS szejnfeld

Reviewer's report:

1. Page 4, line 12. Please replace 'is been' for has been.
2. Page 5, line 16. Please add conjunction. It has been demonstrated THAT...
3. The authors state that their sample is representative of the Brazilian population. It sounds rather unreasonable that the Brazilian population consists of 70 % women and 30% men. Please rephrase accordingly and explain whether adjustments were performed to correct eventual distortions and sampling biases.
4. Page 7, line 19. The authors considered in the survey only forearm, humerus and femur as peripheral fragility fractures. Why were not metatarsal fractures included in the analysis?
5. Page 8, first paragraph. This paragraph needs to be rewritten. The authors will have to explain better their sampling methodology. What happened when a household was selected and had more than 2 individuals 40 years or older?
6. An important finding of the study requires further discussion that was not provided by the authors. They observed that vitamin D intake in the Brazilian population is lower than that observed in other populations. How the authors explain a very low fracture incidence in the context of low vitamin D intake? How their fracture incidence compares to other countries in Latin America?
7. The lack of vitamin D and bone markers measurements is a significant limitation of the study. The authors should knowledge that.
8. Page 17, third paragraph. The entire paragraph needs to be rewritten. 'higher intake of calcium, phosphorus and magnesium was observed in women with fragility fractures' compared to whom? Moreover, the authors' conclusion of that finding does not make sense. Reverse epidemiology needs better explaining and an adequate reference should also be added.

Level of interest: An article of importance in its field

Quality of written English: Needs some language corrections before being published

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