Reviewer’s report

Title: Diet and nutrient status of legume consumers in Sweden: A descriptive cross-sectional study

Version: 0 Date: 04 Nov 2019

Reviewer: Ke Chen

Reviewer's report:

Line 85: what are the Inclusion and exclusion criteria for the 5,003 Swedish residents who were chosen to take part in the survey study? Because in Line 86, the participant rate was only 36%, that is to say, the dropout rate is 64%. Is there any potential bias effect for the original inclusive participants because of the high dropout rate?

Line 102: of which 280 also donated blood and urine samples. My question is: what is the inclusive criteria for the sub-group to donate their blood and urine, randomization? Or other criteria? Which might has the selective bias for the result explanation.

Line 105: For the categorization of smoker, it is seemed that the definition for former smoker and occasional smoker were not very clear because of the cross categorization between them.

Line 127: Is the inflammation biomarker, such as CRP, was measured in the study? Because, the ferritin levels is always affected by the inflammation status which resulting the inaccurate estimation for the iron status by serum ferritin.

Line 175: The value of SD for consumed legumes is more than the value of mean, which indicating the distribution of such data (intake of legumes) was not normality, so the presentation of mean (SD) was not suitable for the data. The similar problem is for the data of the percent of individual's energy intake from legumes to the total energy intake. Moreover, to deeply understand the difference of data among the different groups (such as Non-consumer, Q1, Q2, Q3 and Q4 groups), multiple comparison statistical analysis among groups can provide more information about it.

Line 188: In table 1, I strongly suggested that the author should present the total values of each item for legumes consumption despite the quartiles of each item, which can make the difference between the two groups clear from the total. The same problem is also to the data in Table 2. More, multiple comparison statistical analysis was also suggested to these data.

Line 245: Did the author analyze the nutrient status in the sub-group from the consumer group according to the intake of daily legumes?
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