Reviewer’s report

Title: Association between egg consumption and elevated fasting glucose prevalence in relation to dietary patterns in selected group of Polish adults

Version: 1 Date: 19 Oct 2019

Reviewer: Lidia Wadolowska

Reviewer's report:

The Authors improved data presentation but manuscript still should be corrected to achieve high quality.

1. The Authors should put in table 1 for each food item (mentioned in the FFQ) the corresponding question number, so readers can fully understand the aggregation of food items, and repeat all analysis.

2. The aggregation of food items into food groups is poorly thought out, e.g. raw vegetables. There are many foods associated with raw vegetables in FFQ - are they included? The category "vegetables" consists of cooked vegetables, tomato sauce, canned corn/peas, but does not consist of raw vegetables. Why?

3. The aggregation of food items into food groups should be done again. When will be done, it is possible that new/other dietary patterns will be identified.

4. Traditional (Polish) DP consists of fish - it is amazing and may result from incorrect aggregation of foodstuffs. In no Polish studies (there are many, but they were not cited) traditional DP did not contain fish. This should be discussed extensively, and other Polish studies should be cited. According to other results, fish should be a component of Prudent DP.

5. In overall, a drop out is &gt;20% - it should be discussed in the limitation section. 395 participants were excluded due to lack data on FG. These 395 participants and others with complete data (n=1630), dietary data should be compared and put into supplementary material.

6. When the aggregation of food items will be made, it should be considered to create two separate fat groups - vegetable-based and animal-based due to different link to health outcomes.

7. All tables: notes should be carefully checked because each table/figure should be self-reading.

8. "High-fat cheese and cream" group - what about low-fat cheese? It was considered in the study?
9. In general, the discussion section is weakly written. The first paragraph of the discussion should summarise results, while conclusion should contain overall consideration drawn on the base of own results (without results summary).

10. Table 2 and others: Cut-off point for elevated glucose should be given.

11. Lines 30-31 and 116-117: What was cut-off point for elevated glucose? ≥100 mg/dl or ≥100 mg/dl.

12. Line 145: What about subjects who had parameters =median, were they excluded from analysis?

13. Lines 180-187: In my opinion, data described in these lines are important and should be shown in tables, in the main text or supplementary material.

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