Reviewer’s report

Title: Consumption patterns of meat, poultry, and fish after disaggregation of mixed dishes: secondary analysis of the Australian National Nutrition and Physical Activity Survey 2011-12

Version: 0 Date: 22 Mar 2017

Reviewer: Sarah Bel

Reviewer’s report:

General comment: This is an interesting and well-written article that indicates the importance for future population studies and food consumption surveys to disaggregate reported food information to obtain more accurate estimates of consumption. However, the article could be improved by clearly describing in the methods section the difference between the 'per-capita' and 'per-consumer' results, as I believe these terms are not that commonly used in nutritional studies (in Europe). As this was not explained I presumed the difference was "consumers only" (per-consumer) and "all subjects" (per-capita). I could also not find an explanation in a previous published article [10].

Specific comments:

ARTICLE:

P4L107: Please explain the term 'Automated Multiple-Pass' 24-hour recall and add a reference if possible.

P5L118: ‘… and for fish was 'fish…..': delete the second 'was' in this sentence

P5L138: Placing the sentence 'The AUSNUT…..time period [20]' immediately after the first sentence of the 'disaggregated classification' section of method, makes it more understandable, as this immediately describes what this recipe file is based on.

P6L164: Please add 'fatty acids', it is 'long-chain omega-3 fatty acids' and check the whole article to make it consistent (P13L340)

P6L166: Please clearly explain the difference between per-capita intakes and per-consumer intakes (how was it calculated?)

P8L205-207: You are describing daily intakes (as you mention on P6L170) so please mention this or change unit to 'g/day' everywhere. Also check the whole article (including tables) to make this consistent.

P8L207: Add a space between 11.7 and g
P8L218: '… of total weight consumption': would delete the 'weight' and just say 'total consumption' also for P8L219

P8217-218: Can you explain how you calculated these percentages? A quick calculation using results from table 3 results in 22.8% for children and 16.3% for adults.

P10L250-254: This paragraph was quite confusing for me and might benefit from being re-written. Supplementary table 3 provides absolute intakes of energy and nutrients coming from meat/poultry/fish. Maybe the 'contributed from' and the percentages you provide for the survey classification between brackets make this paragraph confusing, because there is no comparison for the reader to make (the table provides absolute intakes and not contributions to total energy or nutrient intake).

P10L259: In article [10] you already provided these disaggregated data on meat/poultry/fish, although not as detailed as in this article, so maybe the fact that you provide more detailed meat/poultry/fish classifications and stratifications for gender/age could be highlighted.

P10L267: put the comma after brackets …( stir-fries),

P10L272: delete 'out'

P12L319: "on the day of the survey" is confusing as 24-hour recalls are used and "the day of the survey" is actually the day after the recall day when people are reporting what they have eaten the day before. On P11L281 you use "on the day prior to the interview" which is correct. Please rephrase this.

TABLES:

Table 1-3-supplementary table 2: g/day is the correct unit

Table 2: In the title you say '… by gender' but it is also by age group (children-adults).

Table 5: long-chain omega-3 'fatty acids', add in title 'by gender and age group'; make it clear that 2-18 and 19+ are age groups

Supplementary table 2: explain somewhere that SEIFA categories refer to socio-economic categories

Supplementary table 3: "Daily" intake or add "/day" to units.

Is it possible to display statistical significant differences in table 2-3-4-5-supl2?

FIGURES
Figure 1: please add g/day in the figure

**Are the methods appropriate and well described?**
If not, please specify what is required in your comments to the authors.

Yes

**Does the work include the necessary controls?**
If not, please specify which controls are required in your comments to the authors.

Yes

**Are the conclusions drawn adequately supported by the data shown?**
If not, please explain in your comments to the authors.

Yes

**Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?**
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

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