

|  | applies to all responders, suggest adding wording to indicate this, but again, ldeally the consumer data denominator would provide the primary comparison of proportions of energy drink serious events to coffee serious events <br> Thank you for this suggestion. We have revised the description, as noted above. We have also provided the additional analysis among consumers only, as noted above. <br> Page 8, Strengths and Limitations section: <br> 12. Since this population was $43 \%$ from Quebec and $75 \%$ white, $I$ would suggest including this as a limitation in generalizability, specifically regarding the former as it is uncertain if the dynamics of energy drink consumption would be similar in other areas of the country. <br> The sample was weighted so that Quebec responses were proportional to population size (i.e., 23\% of people this age, rather than $43 \%$ ), but it has been mentioned in the limitations. Regarding the sample being $75 \%$ White, this is comparable to the overall population and not a limitation of the sample; only $19 \%$ of Canadians are visible minorities, according to national statistics (http://www12.statcan.gc.ca/nhs-enm/2011/as-sa/99-010-x/99-010-x2011001-eng.cfm\#a4). <br> 13. Another difficulty with surveys of consumption are determining what defines a dose, so there is a limitation of the uncertainty around the amount of caffeine consumed beyond simply 1-2 beverages, unless this was specified in the questions asked. But even so, the caffeine content especially in coffee varies significantly. Suggest providing a statement addressing this. <br> The caffeine content in both energy drinks and coffee varies, and it is not possible from the survey data to precisely estimate how much caffeine each individual consumed when experiencing adverse effects. It is reasonable to assume that anyone who consumed 3 or more beverages (of either coffee or energy drinks) was exceeding the daily recommendation. This has been noted in the Limitations section of the revised manuscript. |
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| Reviewer 2 | Dr. Andrew Bulloch |
| Institution | University of Calgary, Community Health Sciences, Calgary, Alta |
| General comments (author response in bold) | This is the first population based survey of energy drinks in Canada that makes comparisons with the adverse effects of coffee. This is a timely and thorough report that encompasses all 10 provinces (but not the Territories) and provides weighted estimates. It is timely because the public generally views energy drinks as safe (as cannabis is viewed) and this will provide an important warning (press releases should be considered). Limitations have been acknowledged and the results backed up by use of data from Health Canada's Adverse Reaction Reporting for Specific Products. Methodology is appropriate. Attention should be paid to the following points: <br> 1. Intro paragraph 1: what is the maximum recommended caffeine intake for children < 13; how many drinks does this represent (say of Red Bull)? <br> The maximum recommended intake varies by age: $45 \mathrm{mg} / \mathrm{day}$ for $4-6$ years; $62.5 \mathrm{mg} / \mathrm{day}$ for $7 \mathbf{- 9}$ years; $85 \mathrm{mg} /$ day for $10-12$ years; no more than $2.5 \mathrm{mg} / \mathrm{kg}$ body weight for adolescents; 400 mg for adults. Details for the relevant age groups have been added to the Background. <br> 2. Intro paragraph3: what country was ref 35 carried out in? <br> The survey was conducted with medical students in Italy. This information has been added to the study description in the paper. <br> 3. Methods: I suggest inclusion of the survey as a supplementary file. <br> The survey has been added as a supplementary file. If the editors wish, we could also post a copy of the survey on a study website. <br> 4. Results: please add some more McNemar's tests: e.g., in paragraph beginning Table 2 shows. As noted above, we have provided additional analysis, as described on pages 5 and 6. <br> 5. Discussion: clarify throughout the paper that the population surveyed has non-consumers, the first sentence confused me at first. <br> The first sentence of the Results for Adverse events notes, "The overall proportions of young people (including consumers and non-consumers)..." This wording has been repeated in the first sentence of the Discussion and we have made other revisions to clarify the respondents included in each analysis, as noted above. <br> 6. Page 8 para 2: sentence: the association between energy drinks and alcohol...needs at least one reference. <br> Thank you for this suggestion: we have cited a review article on this topic in the revised manuscript. <br> 7. Table 3 shows $22.5 \%$ were also consuming alcohol whereas this figure is $6.6 \%$ in the supplementary data, please comment. <br> The difference is most likely due to differences in age: the current sample is restricted to youth and young adults, whereas there are no age restrictions on the data included in the Canada Vigilance Online Database. Given that consuming alcohol mixed with energy drinks is more common among young people, this likely accounts for the difference. <br> 8. Supplementary data: what is the age range? <br> Please see response to comment immediately above: there is no age limit to the data included in the Canada Vigilance Online Database. <br> 9. Supplementary data: why no Discussion? <br> As noted in our response to the Editor, the purpose of the Supplemental data was to provide readers with a summary of data, but not to provide any additional comment or interpretation, other than in reference to the current findings, contained in the Discussion section on pages 7 and 8 of the manuscript. |

