Reviewer’s report

Title: Adolescent wine consumption is inversely associated with long-term weight gain: Results from follow-up of 20 or 22 years

Version: 0 Date: 29 May 2019

Reviewer: Belay Bancha

Reviewer's report:

The overall content of the study is interesting which may call for other strongest study design. It also recognized a lot of limitations. However, it requires revisions on the specific issues of grammars including use of spaces, full stop and phrases like "we no found" (line 176). I'm not sure that the study is a trial because I can't see intervention and control group assigned by the investigator. I do not agree that if smocking alone is not associated with weight gain, it is worth to think about interaction. If there are no comparators, I suggest the title longitudinal rather than cohort. Titles of tables lack some essential characteristics. The p-value is not significant at its 0.079 which is greater than set point with mixed CI (line 147). The issue of multicolinearity has to be addressed.

The authors are supposed to address the following issues before final decision.

About 60% of your eligible were not participated in the analysis. Do you think voluntary participants are similar to non-participants? (64-65). Why participants enrolled in the baseline survey without complete data for BMI, SES, and smocking? (67). The baseline data were taken in either 1983 or 1985. Why 1984 was exempted? If it was exempted for any justifiable methodological reason, can you declare it was a follow up of 20-22 years? Why parental weight and height were taken, what it contributed in this analysis? Anthropometric data were self-reported (line 6, 60, 86, 216 etc.), if that is the case how you removed a participant due to misreporting of weight (line 69)? How can you rely on self-reported alcohol consumption? Can you rule out flat slop syndrome among drunker?

Is there any conventionally used p-value to declare borderline statistical significance? How can you declare statistical significance with mixed CI? At what age does the country's regulation permit alcohol intake? For how long your study participant used to consume alcohol? From the baseline? Now (at a time of second survey) your study participants are adults; can you extrapolate the association of alcohol consumption and BMI to the period of adolescence? In what way smoking modified the effect of alcohol in weight gain? In this data can we speak of the effect of alcohol among participants? Is it alcohol or other phytochemicals in wine which contributed for inverse relation with weight gain? If it's alcohol, you would expect similar pattern with beer and spirit. Finally, how do you manage the perception that will be imposed by the readers with an impression "alcohol for obesity management"?
Level of interest
Please indicate how interesting you found the manuscript:

An article of importance in its field

Quality of written English
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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