Reviewer’s report

Title: Arsenic Exposure and Risk of Non-Alcoholic Fatty Liver Disease (NAFLD) Among U.S. Adolescents and Adults: An Association Modified by Race/Ethnicity, NHANES 2005-2014

Version: 0 Date: 24 Jul 2017

Reviewer: Wei-Wen Su

Reviewer's report:

1. Methods, Other Covariates Line 163, overweight (18.5-<25) ,Overweight (25-<30) need further correction.

2. In Table 2, Geometric mean ALT level is lowest in non-Hispanic black. But in Table 3, it ranked the 3rd of the geometric mean arsenic level among different groups, which is not consistent with the overall trend of correlation of elevated ALT level and arsenic exposure. What's the possible explanation and please put it into discussion.

3. Although Table 4 has already adjusted for age,gender and BMI etc., it would be better to have the BMI figure among different ethnicity groups to see if there is any different distribution among different ethnicity groups which may confound the result.

4. Since high BMI is the major contributing factor, the role and impact of arsenic exposure may be best delineated in lean male in this cohort just as Taiwanese study. I wonder that if you can show this in another figure, and better in separate race/ethnicity groups.

Level of interest
Please indicate how interesting you found the manuscript:

An article whose findings are important to those with closely related research interests

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

Acceptable

Declaration of competing interests
Please complete a declaration of competing interests, considering the following questions:

1. Have you in the past five years received reimbursements, fees, funding, or salary from an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

2. Do you hold any stocks or shares in an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?
3. Do you hold or are you currently applying for any patents relating to the content of the manuscript?

4. Have you received reimbursements, fees, funding, or salary from an organization that holds or has applied for patents relating to the content of the manuscript?

5. Do you have any other financial competing interests?

6. Do you have any non-financial competing interests in relation to this paper?

If you can answer no to all of the above, write 'I declare that I have no competing interests' below. If your reply is yes to any, please give details below.

I declare that I have no competing interests

I agree to the open peer review policy of the journal. I understand that my name will be included on my report to the authors and, if the manuscript is accepted for publication, my named report including any attachments I upload will be posted on the website along with the authors' responses. I agree for my report to be made available under an Open Access Creative Commons CC-BY license (http://creativecommons.org/licenses/by/4.0/). I understand that any comments which I do not wish to be included in my named report can be included as confidential comments to the editors, which will not be published.

I agree to the open peer review policy of the journal