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: 1 Date: 15 Dec 2017

Reviewer: Wei-Wen Su

Reviewer's report:

Overall, this paper comprehensively address the correlation of arsenic exposure and risk for non alcoholic fatty liver disease using ALT as a surrogate biomarker. The association seemed to be modified by different race/ethnicity. This result may help to answer some epidemiological study addressing the different non alcoholic fatty liver disease prevalence among different race/ethnicity in U.S.

Most reviewer's critical questions had been answered by this revised manuscript already. The answer to question 1 raised by reviewer 2 could have been better by addressing some more reference linking the extra cardiovascular risk, etc. in the particular at risk Mexican American that may be enhanced by this extra arsenic exposure. For example, recently published paper in "Am J Cardiol. 2017 Jun 1;119(11):1717-1722" stated that "Frequency of Nonalcoholic Fatty Liver Disease and Subclinical Atherosclerosis Among Young Mexican Americans". Put it into the discussion paragraph may help for the overall justification.

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