Reviewer's report

Title: Association of Low-level Blood Lead with Serum Uric Acid in U.S. Adolescents: A Crosssectional Study

Version: 1 Date: 02 Sep 2019

Reviewer: Greet Schoeters

Reviewer's report:

The manuscript has improved considerably. I have only minor further suggestions to improve the language or the clarity of the text as indicated below:

Line 54: delete this sentence: "With the rapid industrialization, we are now facing great challenges in regarding heavy metal contamination in the environment."

Line 55: Lead, a heavy metal, is widely distributed in the environment and "remains" a major public health challenge

Line 59: Industrial and traffic lead emissions are still rising and difficult to degrade: lead related traffic emissions are not rising anymore in Europe and in US. Please delete this sentence.

Line 61: Workers are primarily exposed to lead in their places of employment, while adolescents ..... It depends on the working environment whether they are exposed or not, please specify or give some examples, while the general population is exposed to lead from other non-occupational sources, such as the drinking water supply and air pollution.

Line 81: The association between low BLL "at" a very low level and SUA among adolescents...

Line 100: Blood samples were collected from those 12 years of age and older. Were these fasting samples? Please specify

Line 158: The covariates when added to this model, changed the matched odds ratio by at least 10%. I guess you refer here explicitly to the model 4?? Please make this more clear.

Line 202-203: mention that this is a result from the fully adjusted model 3

Line 215: The effect of LnBLL on SUA was more significant "at" low education levels
These findings suggest that life style, behavior or environmental conditions related to lower education has an indirect influence on the association between BLL exposure and SUA.

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