Reviewer's report

Title: The role of cities in reducing the cardiovascular impacts of environmental pollution in low and middle-income countries

Version: 0 Date: 09 Dec 2019

Reviewer: Ana Navas-Acien

Reviewer's report:

This is a comprehensive review paper on the role of cities to reduce environmental pollution in low- and middle-income countries. The review included major relevant pollutants for cardiovascular disease including air pollution, metals, noise, and ambient temperature and it is an informative contribution for diverse readerships. I have just some minor edits:

Page 3, line 53: define the acronym PM2.5.

Page 4, line 9: I would not say that PM2.5 "produces" inflammatory and oxidative stress responses. I think "induce" is a better word.

Page 4, line 10: Epidemiological evidence is generally not enough for causation.

Page 4, line 16: I think it will be good to also list subclinical coronary artery calcification (Kaufman et al. 2016 Lancet).

Page 4, line 49: I recommend adding the recent systematic review (Chowdhury et al. BMJ 2018)

Page 5, line 5: typo "An link"

Page 5, line 17: are you sure "serum levels" is correct? Cadmium is generally measured in whole blood and not in serum. Cadmium is stored in red blood cells so levels in serum are very low and difficult to measure and interpret (not necessarily related to overall exposure). Same comment for the study on page 5, line 22 with serum levels of lead and cadmium. Confirm this is correct.

Page 7, line 37: a "to" is missing between used and incentivize.

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