

## ***Interactive comment on “Polycyclic aromatic hydrocarbon in urban soils of the Eastern European megalopolis: distribution, source identification and cancer risk evaluation” by George Avtandilovich Shamilishvily et al.***

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I have carefully read through the MS titled "Polycyclic aromatic hydrocarbon in urban soils of the Eastern European megalopolis: distribution, 1 source identification and cancer risk evaluation". I evaluated the originality, significance and technical quality of the work and the length and clarity of this manuscript. As we know, Residents are primarily exposed to PAHs via three main pathways: ingestion; dermal absorption; and inhalation. According to your manuscript, the risk assessment is an important part, but this MS lack some key information related to risk assessment. Please provide

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each pathway risk assessment for children and adults. And some references may be help you and should be cited in your manuscript as below: Archives of Environmental Contamination and Toxicology, 2017, 72(4): 496-504

- We have evaluated cancer risk related to three routes of exposure for both children and adults using a RAIS Risk Exposure Models for Chemicals. Thank you for suggestion.

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Interactive comment on Solid Earth Discuss., <https://doi.org/10.5194/se-2017-54>, 2017.

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