

Special Issue

Epidemiological Studies of Chronic Exposures to Radon: Additive and Multiplicative Models and Quality Assessment of Individual Exposures

Message from the Guest Editor

Lung cancer risk in radon exposed has generally been studied since the 1960s using a cohort designs. The risk from residential radon was studied substantially later mostly using case-control designs. In both designs, the risk has been described in relative risk models, assuming multiplicative effects between the background risk and the risk from radon exposure. The additive risk models, where the background risk and radon exposure induced risks are added, were not explicitly reported. In both approaches, the risk models can be improved by inclusion of modifying factors, similar to the Japanese Life Span Study of atomic bomb survivors (LSS). The aim of the present Special Issue is to report results based on both additive and multiplicative models and compare the models with LSS. In studies with individual smoking information, the interaction between radon and smoking can be explicitly modelled. In studies where individual smoking data are not available, estimated background rates can be compared with national lung cancer rates. In addition, a study of quality of exposure can be realized, including description of methods used in individual exposure estimates.

Guest Editor

Dr. Ladislav Tomášek

National Radiation Protection Institute, Bartoskova 28, Prague, Czech Republic

Deadline for manuscript submissions

closed (30 June 2018)



International Journal of Environmental Research and Public Health

an Open Access Journal
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CiteScore 8.5
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*International Journal of
Environmental Research and
Public Health*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijerph@mdpi.com

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Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

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Editor-in-Chief

Prof. Dr. Paul B. Tchounwou
RCMI Center for Urban Health Disparities Research and Innovation,
Richard N. Dixon Research Center, Morgan State University, Baltimore,
MD 21251, USA

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