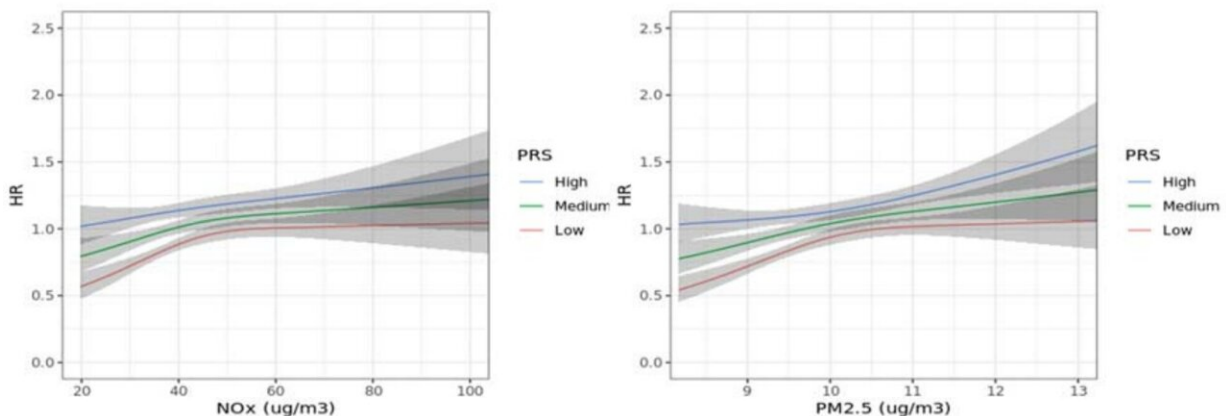


Long-term exposure to air pollution may increase kidney disease risk

November 4 2022



Restricted cubic splines of NO_x and PM_{2.5} for CKD. Credit: Air Pollution, genetic factors, and the risk of incident chronic kidney disease: a prospective study of polygenic risk score analysis in the UK Biobank

Both genetic and environmental factors contribute to chronic kidney disease (CKD). New research assessed the interaction of air pollution and genetic factors on the development of CKD. The research will be presented at ASN Kidney Week 2022 November 3–6.

Investigators analyzed data from 350,994 participants without CKD at baseline in the UK Biobank. Exposure to higher concentrations of components of air pollution was linked with higher risks of developing

CKD. Compared with individuals with high genetic risk of developing CKD, those with high air pollution exposure and low genetic risk faced a higher risk of developing CKD.

"Long-term exposure to air pollution may increase the risk of CKD, especially in those with low genetic risk," the authors wrote.

More information: Study abstract: [ksn.or.kr/upload/journal/3holG ...UVcbx5ul2FT8BKgE.pdf](https://ksn.or.kr/upload/journal/3holG...UVcbx5ul2FT8BKgE.pdf)

Provided by American Society of Nephrology

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