

Some current challenges in research on air pollution and health

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Samet JM.
Some current challenges in research on air pollution and health.
Salud Publica Mex 2014;56:379-385.

Abstract

This commentary addresses some of the diverse questions of current interest with regard to the health effects of air pollution, including exposure-response relationships, toxicity of inhaled particles and risks to health, multipollutant mixtures, traffic-related pollution, accountability research, and issues with susceptibility and vulnerability. It considers the challenges posed to researchers as they attempt to provide useful evidence for policy-makers relevant to these issues. This commentary accompanies papers giving the results from the ESCALA project, a multi-city study in Latin America that has an overall goal of providing policy-relevant results. While progress has been made in improving air quality, driven by epidemiological evidence that air pollution is adversely affecting public health, the research questions have become more subtle and challenging as levels of air pollution dropped. More research is still needed, but also novel methods and approaches to address these new questions.

Key words: air pollutants; health effects; environmental exposure; risk assessment; epidemiology; research challenge; research methodology; public health

Samet JM.
Desafíos actuales de la investigación sobre contaminación del aire y salud.
Salud Publica Mex 2014;56:379-385.

Resumen

Este comentario aborda algunos de los temas de interés actual en relación con los efectos de la contaminación del aire sobre la salud, tales como las relaciones exposición-respuesta, la toxicidad y riesgos para la salud de las partículas inhaladas, las mezclas de contaminantes múltiples, la contaminación relacionada con el tráfico, la investigación sobre responsabilidad, y los problemas de susceptibilidad y vulnerabilidad. Considera los retos que se presentan a los investigadores que intentan proporcionar evidencia para los responsables políticos en estas cuestiones. Este texto acompaña otros trabajos con resultados del proyecto ESCALA, un estudio en varias ciudades de América Latina que tiene como objetivo general proporcionar resultados relevantes para la política pública. Aunque ha habido avances para mejorar la calidad del aire, gracias a la evidencia epidemiológica de que la contaminación aérea está afectando negativamente a la salud pública, las preguntas de investigación se han vuelto más sutiles y difíciles a medida que los niveles de contaminación se reducen. Se necesita más investigación, pero también nuevos métodos y enfoques capaces de enfrentar estas preguntas.

Palabras clave: contaminantes del aire; efectos en la salud; exposición ambiental; medición de riesgo; epidemiología; desafíos en investigación; metodología de la investigación; salud pública

Serious research on the health effects of air pollution dates to the 1950s, following the London fog of 1952 and other air pollution disasters.^{1,2} At that time, the motivating concern was the threat to public health of acute excess mortality during times of very high

pollution. While this concern persists for much of the world's population living in the growing number of polluted megacities in low- and middle-income countries, air quality control and changes in industry, motor vehicles, power plants, and other sources have greatly

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