

Air Pollution And Health

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Poor Air Quality Affects Physical, Mental HealthEnvironmental Health: Air Pollution, COVID-19 \u0026amp; Health Disparities Air Pollution And Health

From smog hanging over cities to smoke inside the home, air pollution poses a major threat to health and climate. The combined effects of ambient (outdoor) and household air pollution cause about 7 million premature deaths every year, largely as a result of increased mortality from stroke, heart disease, chronic obstructive pulmonary disease, lung cancer and acute respiratory infections.

WHO | Air pollution and health: Summary

Air pollution exposure is linked to a wide range of adverse health outcomes in children, including infant mortality, asthma, neurodevelopmental disorders, and childhood cancers. By [prescribing] clean air for children, policymakers can protect them from the lifelong effects of air pollution exposure.

How air pollution is destroying our health

The scientific evidence is unequivocal: air pollution can harm health across the entire lifespan. It causes disease, disability and death, and impairs everyone's quality of life. It damages lungs, hearts, brains, skin and other organs and increases the risk of disease and disability, affecting virtually all systems in the human body.

Air Pollution and Health

With the arrival of cold and foggy winter weather amid the pandemic, eastern Europe is facing an extra respiratory health hazard—air pollution. Countries such as Bosnia and Serbia in the Balkans ...

Air pollution in eastern Europe adds to pandemic health woes

Air Pollution in Eastern Europe Adds to Pandemic Health Woes SARAJEVO, Bosnia-Herzegovina (AP) — With the arrival of cold and foggy winter weather amid the pandemic, eastern Europe is facing an ...

Air Pollution in Eastern Europe Adds to Pandemic Health ...

Air pollution in eastern Europe adds to pandemic health woes The Bosnian capital of Sarajevo is covered by layers of fog, Thursday, Dec. 17, 2020. With the arrival of cold and foggy winter weather, eastern Europe is facing another health hazard in addition to the COVID-19 pandemic, namely dangerous air pollution.

Air pollution in eastern Europe adds to pandemic health woes

Dirty air is a chronic problem in the city of some 270,000, which is nestled in a narrow valley surrounded by mountains, and has few anti-pollution measures in place. Bosnia — and much of the ...

Air pollution in eastern Europe adds to pandemic health woes

Ambient air pollution accounts for an estimated 4.2 million deaths per year due to stroke, heart disease, lung cancer and chronic respiratory diseases. Around 91% of the world's population lives in places where air quality levels exceed WHO limits.

Ambient air pollution - World Health Organization

SARAJEVO, Bosnia-Herzegovina (AP) — With the arrival of cold and foggy winter weather amid the pandemic, eastern Europe is facing an extra respiratory health hazard — air pollution.

Air pollution in eastern Europe adds to pandemic health ...

Air pollution is a major environmental risk to health. By reducing air pollution levels, countries can reduce the burden of disease from stroke, heart disease, lung cancer, and both chronic and acute respiratory diseases, including asthma.

Ambient (outdoor) air pollution - World Health Organization

Air pollution can be harmful to heart health and may make it more likely that some people will have a heart attack or stroke. Learn the facts about air pollution and how you can keep your heart healthy. Heart Disease, Stroke, and Outdoor Air Pollution Protect Your Heart: Steps You Can Take to Reduce Health Effects from Air Pollution (EPA)

Air Quality - Public Health Issues | CDC

Air pollution contributes to myriad health problems and medical conditions including cardiovascular disease, liver and blood diseases, headaches, anxiety, eye/nose/throat irritation, breathing conditions such as asthma, nervous system disorders, lung cancer, problems of the reproductive system, and other chronic and long-term diseases.

Health Effects of Air Pollution - The Balance

Air pollution and health Air pollution is one of the great killers of our age. Polluted air was responsible in 2015 for 6.4 million deaths worldwide: 2.8 million from household air pollution and 4.2 million from ambient air pollution. 1

Air pollution and health - The Lancet Public Health

The health effects of air pollution have been subject to intense study in recent years. Exposure to pollutants such as airborne particulate matter and ozone has been associated with increases in mortality and hospital admissions due to respiratory and cardiovascular disease.

Air pollution and health - The Lancet

The effects of air pollution on a person's health can range from mild breathing difficulties to severe cardiovascular issues, including heart disease and stroke. Harmful gases and particles in the...

Air pollutants: How they affect our health

Tiny particles of air pollution were already known to raise people's risk of developing heart and lung disease, but a new study suggests they might also raise the risk of developing chronic kidney ...

Air pollution may take a toll on the kidneys, Chinese ...

Reductions in air pollution-related disease burden (both for household and outdoor) will be used to monitor the progress towards attaining the Sustainable Development Goal on Health (SDG 3). Ensuring universal access to clean fuel and technologies is a target of the Sustainable Development Goal on energy (SDG 7).

Household air pollution and health

SARAJEVO, Bosnia-Herzegovina (AP) — With the arrival of cold and foggy winter weather amid the pandemic, eastern Europe is facing an extra respiratory health hazard — air pollution. Countries such as Bosnia and Serbia in the Balkans, and even European Union nations Poland and Croatia, traditionally report high levels of dangerous pollution from heating in winter months.

Air pollution in eastern Europe adds to pandemic health ...

Exposure to tiny particles of air pollution—called fine particulate matter—is known to increase people's risk for developing cardiopulmonary diseases, but its effects on kidney health are unclear.

Concern about the impact of air pollution has led governments and local authorities across the world to regulate, among other things, the burning of fossil fuels, industrial effluence, cigarette smoke, and aerosols. This legislation has often followed dramatic findings about the impact of pollution on human health. At the same time there have been significant developments in our ability to detect and quantify pollutants and a proliferation of urban and rural air pollution networks to monitor levels of atmospheric contamination. Air Pollution and Health is the first fully comprehensive and current account of air pollution science and its impact on human health. It ranges in scope from meteorology, atmospheric chemistry, and particle physics to the causes and scope of allergic reactions and respiratory, cardiovascular, and related disorders. The book has substantial international coverage and includes sections on cost implications, risk assessment, regulation, standards, and information networks. The multidisciplinary approach and the wide range of issues covered makes this an essential book for all concerned with monitoring and regulating air pollution as well as those concerned with its impact on human health. Only comprehensive text covering all the important air pollutants and relating these to human health and regulatory bodies Brings together a wide range of issues concerning air pollution in an easily accessible format Contributions from government agencies in the US and UK provide information on public policy and resource networks in the areas of health promotion and environmental protection

Air pollution is recognized as one of the leading contributors to the global environmental burden of disease, even in countries with relatively low concentrations of air pollution. Air Pollution: Health and Environmental Impacts examines the effect of this complex problem on human health and the environment in different settings around the world. 1

Air Pollution, Climate and Health integrates the current understanding of the issues of air pollution, climate change and human health. The book provides a comprehensive overview of these issues to help readers gain a better understanding of how they interact and impact air quality and public health. Regional examples from across the globe include issues related to PM 2.5, haze, winter pollution, heat related mortality and aerosols. These issues are addressed utilizing current research and laboratory-based, observation-based, and modeling-based analysis. This is an essential resource for all professionals investigating the impacts of climate change or air pollution on human health. Provides a comprehensive understanding of the interactions between climate change, air quality and human health Includes evidence-based findings to help clarify the mechanisms on how air pollution impacts climate and how a changing climate is impacting those pollutants Covers a number of pollution sources and products impacting climate change, including energy, haze, particulate matter, aerosols, PM 2.5 and transport

Traffic-Related Air Pollution synthesizes and maps TRAP and its impact on human health at the individual and population level. The book analyzes mitigating standards and regulations with a focus on cities. It provides the methods and tools for assessing and quantifying the associated road traffic emissions, air pollution, exposure and population-based health impacts, while also illuminating the mechanisms underlying health impacts through clinical and toxicological research. Real-world implications are set alongside policy options, emerging technologies and best practices. Finally, the book recommends ways to influence discourse and policy to better account for the health impacts of TRAP and its societal costs. Overviews existing and emerging tools to assess TRAP's public health impacts Examines TRAP's health effects at the population level Explores the latest technologies and policies—alongside their potential effectiveness and adverse consequences—for mitigating TRAP Guides on how methods and tools can leverage teaching, practice and policymaking to ameliorate TRAP and its effects

This invaluable volume, the third in the series Air Pollution Reviews, addresses particular questions relating to air pollution and its effect on health. It deals with the impact of nasal disease on lung exposure, how pollutants are distributed within the lung, and the uncertainties with regard to defining the dose to the lung. It takes a tangential look at the lung dose by exploring the possibility of obtaining clues from occupational medicine. Toxicologically, the book examines the possible methodology for exploring how particles and their toxicity can be investigated, and looks into the cardio-toxic effects of air pollution. The effects of pollutant mixtures are compared with those of individual pollutants. In addition, the question of the importance of acid aerosols is tackled. Epidemiologically, the book deals with the problems associated with point sources as opposed to diffuse sources of air pollution, and considers whether the health effects of air pollution can be adequately quantified. These areas, though difficult, need to be addressed, in order to develop our knowledge of the health effects of air pollution. In this volume, a strong panel of authors treat the issues. They have raised questions but at the same time succeeded in solving a number of problems. Contents: The Role of the Nose in Health and Disease (R Eccles)Cardiovascular Effects of Particles (H C Routledge & J G Ayres)Point Sources of Air Pollution — Investigation of Possible Health Effects Using Small Area Methods (P Elliott)Characterisation of Airborne Particulate Matter and Related Mechanisms of Toxicity: An Experimental Approach (K Bérubé et al.)Acid Aerosols as a Health Hazard (L C Chen et al.)Testing New Particles (K Donaldson et al.)Valuing the Health Impact of Air Pollution: Deaths, DALYs or Dollars? (A E M de Hollander & J M Melse) Readership: Government bodies, environmentalists, scientists in the field of air pollution, undergraduate and graduate students.

This book highlights quantitative risk assessment and modeling methods for assessing health risks caused by air pollution, as well as characterizing and communicating remaining uncertainties. It shows how to apply modern data science, artificial intelligence and machine learning, causal analytics, mathematical modeling, and risk analysis to better quantify human health risks caused by environmental and occupational exposures to air pollutants. The adverse health effects that are caused by air pollution, and preventable by reducing it, instead of merely being statistically associated with exposure to air pollution (and with other many conditions, from cold weather to low income) have proved to be difficult to quantify with high precision and confidence, largely because correlation is not causation. This book shows how to use recent advances in causal analytics and risk analysis to determine more accurately how reducing exposures affects human health risks. Quantitative Risk Analysis of Air Pollution Health Effects is divided into three parts. Part I focuses mainly on quantitative simulation modelling of biological responses to exposures and resulting health risks. It considers occupational risks from asbestos and crystalline silica as examples, showing how dynamic simulation models can provide insights into more effective policies for protecting worker health. Part II examines limitations of regression models and the potential to instead apply machine learning, causal analysis, and Bayesian network learning methods for more accurate quantitative risk assessment, with applications to occupational risks from inhalation exposures. Finally, Part III examines applications to public health risks from air pollution, especially fine particulate matter (PM2.5) air pollution. The book applies freely available browser analytics software and data sets that allow readers to download data and carry out many of the analyses described, in addition to applying the techniques discussed to their own data. <http://cox-associates.com:8899/>

Exposure to ambient air pollutants, both indoors and outdoors has been associated with the exacerbation and also in the etiology of diverse human diseases. This book offers an overview of our current understanding of air pollution health risks and how this knowledge is being used in the regulatory, therapeutic intervention measures to protect the public health and reduce the disease burden caused by acute and long-term exposure to air pollutants. Air Pollution and Health Effects provides readers with a comprehensive understanding of air pollution health risks, morbidity and the global disease burden, whilst also delivering critical review on state of the art research so as to gain a fundamental understanding of the biological mechanisms involved in the etiology of air pollution-induced diseases. Chapters range from pregnancy outcomes and pre-term birth, carcinogens in the ambient aerosol and the health consequences of indoor biomass burning. Special emphasis is placed on regional and local air pollution and its impact on global health along with suitable preventive and interventional measures. With contributions from international experts in the field this volume is a valuable guide for researchers and clinicians in toxicology, medicine and public health as well as industry and government regulatory scientists involved in health protection.

This unique textbook examines the basic health and environmental issues associated with air pollution including the relevant toxicology and epidemiology. It provides a foundation for the sampling and analysis of air pollutants as well as an understanding of international air quality regulations. Written for upper-level undergraduate and introductory graduate courses in air pollution, the book is also a valuable desk reference for practicing professionals who need to have a broad understanding of the topic. Key features: - Provides the most up-to-date coverage of the basic health and environmental issues associated with air pollution. - Offers a broader examination of air pollution topics, beyond just the meteorological and engineering aspects of air pollution. - Includes the following Instructor Resources: Instructor's Manual, PowerPoint Presentations, and a TestBank. The Phalens have put together a timely book on a critically important topic that affects all of us -- air pollution — and they do so in a new and highly relevant way: they consider the broad societal health impacts from a fundamental science viewpoint. The epidemiology, toxicology, and risks of air pollutants are included, and ethical issues of concern are highlighted. This book is a must-read for students who wish to become professionals in the air quality field and for students of environmental science whose work includes air pollution issues. The book is a significant contribution to the discipline." - Cliff I. Davidson, Director, Center for Sustainable Engineering; Thomas C. and Colleen L. Wilmot Professor of Engineering, Syracuse Center of Excellence in Environmental and Energy Systems and Department of Civil and Environmental Engineering, Syracuse University "Truly, human well-being and public health in the 21st century may hinge on our ability to anticipate, recognize, evaluate, control, and confirm responsible management of air pollution. This timely, informative, and insightful text provides a solid introduction for students and a technically sound handbook for professionals seeking literacy and critical thinking, real-life examples, understanding (not just rote applications), opportunities for continuous improvement, and modern tools for assessing and managing current and evolving air pollution challenges." - Mark D. Hoover, PhD, CHP, CIH Aerosol and health science researcher, author, and editor

Spatiotemporal Analysis of Air Pollution and Its Application in Public Health reviews, in detail, the tools needed to understand the spatial temporal distribution and trends of air pollution in the atmosphere, including how this information can be tied into the diverse amount of public health data available using accurate GIS techniques. By utilizing GIS to monitor, analyze and visualize air pollution problems, it has proven to not only be the most powerful, accurate and flexible way to understand the atmosphere, but also a great way to understand the impact air pollution has in diverse populations. This book is essential reading for novices and experts in atmospheric science, geography and any allied fields investigating air pollution. Introduces readers to the benefits and uses of geo-spatiotemporal analyses of big data to reveal new and greater understanding of the intersection of air pollution and health Ties in machine learning to improve speed and efficacy of data models Includes developing visualizations, historical data, and real-time air pollution in large geographic areas

In developing countries the price of rapid growth is all too often noxious airborne pollution, which annually contributes to a disturbing number of avoidable deaths. In recent decades, however, there has been considerable progress in the epidemiology of air pollution, significant changes in international air pollution guidelines, and the emergence of more systematic approaches to air pollution control. While many of these advances have originated in affluent countries, there have been major developments in other parts of the world. In this book, a distinguished cast of leading researchers in both the scientific and policy dimensions of air pollution and health have synthesized the recent developments in the field and their relevance for public health in developing countries. The authors review studies from a wide range of Asian, African and Latin American countries and contrast the findings with those from Europe and North America. They also describe various tools and systems for air pollution management and emphasize approaches that can be used when data is scarce. With a clear focus on the scientific and technical aspects of air pollution and health, this book is essential reading for pollution and health policy-makers, researchers and others concerned with air pollution and health in developing countries.