Air pollution, a major scourge of our time, poses a significant threat to public and individual health due to its impact on climate change and the increasing morbidity and mortality associated with it. Various pollutants, including particulate matter (PM), ozone, nitrogen oxides, sulfur dioxide, volatile organic compounds (VOCs), dioxins, polycyclic aromatic hydrocarbons (PAHs), and heavy metals like lead, are detrimental to human health. PM, for instance, penetrates the respiratory system and causes respiratory and cardiovascular diseases, reproductive and central nervous system dysfunctions, and even cancer. Ozone, while protective in the stratosphere, is harmful at ground level, similarly affecting the respiratory and cardiovascular systems. These pollutants contribute to a range of health problems, including respiratory illnesses like COPD, asthma, and lung cancer, cardiovascular events, central nervous system dysfunctions, and skin diseases. Moreover, climate change, fueled by environmental pollution, influences the geographical distribution of infectious diseases and exacerbates the impact of natural disasters. To address this critical issue, public awareness campaigns and a multidisciplinary approach involving scientific experts and national and international organizations are essential. These entities must acknowledge the threat and propose sustainable solutions to mitigate the harmful effects of air pollution.

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