Editorial

Environmental Pollution: A Growing Cancer Risk in Developing Countries

Abdullah Khalid Omer

Department of Food Hygiene and Quality Control, Faculty of Veterinary Medicine, Urmia University, Urmia, Iran

*Corresponding author: a.omer@urmia.ac.ir (A. K. Omer). Urmia University, Urmia, Iran

Unchecked environmental pollution has emerged as a formidable adversary in developing countries, posing a significant risk to public health and well-being. As these nations experience rapid industrialization and urbanization, the consequences of this unchecked pollution are becoming increasingly evident. Among the myriad health risks associated with environmental degradation, the potential link to cancer is particularly alarming and demands urgent attention [1].

Environmental pollution in developing countries is multifaceted, encompassing air, water, and soil contamination. Industrial emissions, vehicular exhaust, improper waste disposal, and the extensive use of agricultural chemicals collectively contribute to the toxic cocktail that permeates these environments. Pollution represents a silent but pervasive threat for populations already struggling with limited access to healthcare and preventive measures [1,2].

Recent studies have drawn correlations between environmental pollution and cancer incidence. Airborne pollutants, such as benzene and formaldehyde, have been linked to lung cancer. Contaminated water sources, often laden with heavy metals like arsenic, mercury, and lead, have been associated with cancers of the bladder, liver, and skin. Soil pollution, exacerbated by the use of pesticides and industrial waste, also plays a significant role in increasing cancer risks [3].

The impact of environmental pollution on cancer rates is particularly pronounced in developing countries for several reasons. Firstly, regulatory frameworks in these nations are often weak or poorly enforced. Industries eager to capitalize on economic opportunities may flout environmental regulations, leading to unchecked pollution. Secondly, public awareness about the dangers of pollution is generally low, and the resources available for mitigation and adaptation are limited. In rural areas, where agricultural activities predominate, pesticides and fertilizers are rampant, often without proper guidance or protective measures. In urban settings, dense populations and traffic congestion exacerbate air pollution levels. The lack of efficient waste management systems results in the open burning of waste, releasing carcinogenic substances into the air [1,2].

Addressing the cancer risk of environmental pollution in developing countries requires a multifaceted approach. Governments must bolster ecological regulations and ensure strict enforcement. This may include setting stringent emission standards, monitoring industrial activities, and penalizing violations. Additionally, education campaigns are crucial to inform the public about the risks associated with pollution and the steps they can take to protect themselves. Communities should be empowered with knowledge and resources to advocate for cleaner environments [4].

Furthermore, developing countries should be encouraged and supported to adopt clean and sustainable technologies. International cooperation and financial assistance can play a significant role in facilitating this transition. Strengthening healthcare infrastructure is essential to improve cancer detection, diagnosis, and treatment. Early intervention may significantly enhance survival rates and quality of life. Investing in research to better understand the link between pollution and cancer is vital. Reliable data can inform policy decisions and help track progress over time [4].

While the primary burden falls on the governments and citizens of developing countries, the international community also has a role to play. Many of the pollutants...
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afflicted by these nations originate from the activities of multinational corporations or the global demand for certain goods. There is a moral imperative for developed countries and international organizations to assist in the fight against environmental pollution and its health repercussions.

In conclusion, environmental pollution is not merely an economic or ecological issue; it is a profound public health crisis with cancer at its forefront. As developing countries continue their journey toward growth and development, ensuring a balance between progress and environmental stewardship is crucial. Failure to address this balance will not only undermine health outcomes but also threaten the sustainable future of these nations. The time to act is now, with concerted efforts from local, national, and global stakeholders to mitigate the risks and safeguard the well-being of current and future generations.

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References