

Health Impact of Air Pollution - Disease Burden Study

Why in news?

\n\n

India State-Level Disease Burden Initiative recently released the estimates of reduction in life expectancy associated with air pollution.

\n\n

What is the initiative?

\n\n

\n

- The India State-Level Disease Burden Initiative was launched in 2015.

\n

- The India State-Level Disease Burden Initiative is a venture of the

\n

\n\n

\n

- i. Indian Council of Medical Research (ICMR)

\n

- ii. Public Health Foundation of India (PHFI)

\n

- iii. Institute for Health Metrics and Evaluation (IHME)

\n

\n\n

\n

- This comes in collaboration with the Ministry of Health and Family Welfare, along with experts and stakeholders associated with over 100 Indian institutions.

\n

- The Initiative makes assessment of the diseases causing the most premature deaths and ill-health in each state of the country.

\n

- The data are analysed using the standardised methods of the Global Burden of Disease Study.

\n

\n\n

What are the key findings?

\n\n

- \n
 - India, with 18% of the world's population, has a high 26% of the global premature deaths and disease burden by air pollution.
 - \n
 - Moreover, one in eight deaths in India was attributable to air pollution in 2017.
 - \n
 - This makes pollution a leading risk factor for death.
 - \n
 - The estimate found that 12.4 lakh deaths in India in 2017 were due to air pollution.
 - \n
 - This included 6.7 lakh deaths due to outdoor particulate matter air pollution and 4.8 lakh deaths due to household air pollution.
 - \n
 - Over half of the deaths due to air pollution were in persons less than 70 years of age.
 - \n
 - In 2017, 77% population of India was exposed to ambient PM2.5 above the recommended limit by the National Ambient Air Quality Standards.
 - \n
 - The highest PM2.5 exposure level was in Delhi, followed by the other north Indian States of Uttar Pradesh, Bihar and Haryana.
 - \n
 - **Effect** - Contrary to the popular association of pollution with respiratory diseases, poor air is responsible for heart diseases as well.
 - \n
 - Disability-adjusted life years (DALYs) is the sum of years of potential life lost due to premature mortality and the years of productive life lost due to disability.
 - \n
 - DALYs attributable to air pollution in India in 2017 for major non-communicable diseases were at least as high as those attributable to tobacco use.
 - \n
 - The average life expectancy in India would have been 1.7 years higher if the air pollution levels were less than the minimal level causing health loss.
 - \n
 - The highest increases in life expectancy would have been in the northern

States of Rajasthan (2.5 years), Uttar Pradesh (2.2 years) and Haryana (2.1 years).

\n

\n\n

What does it call for?

\n\n

\n

- Air pollution needs much more than ad-hoc reactions such as bans, fines and shutting down of power stations.

\n

- The variation between States in the exposure to outdoor and indoor air pollution is evident with the study.

\n

- This factor should thus be taken into account while planning policies to reduce exposure to pollution and its health impact.

\n

- The study also reveals air pollution is a year-round phenomenon, particularly in north India.

\n

- This causes health impacts far beyond respiratory illnesses, which calls for a holistic response.

\n

- With obvious links between pollution control and public health, there has to be collaboration between the ministries of health and environment.

\n

- Pollution control policies should include the combined expertise of public health professionals, transport sector specialists, environmentalists and urban planners.

\n

\n\n

\n\n

Source: The Hindu, Indian Express

\n