



## AIR POLLUTION AND MORTALITY IN INDIAN CITIES - ENVIRONMENT

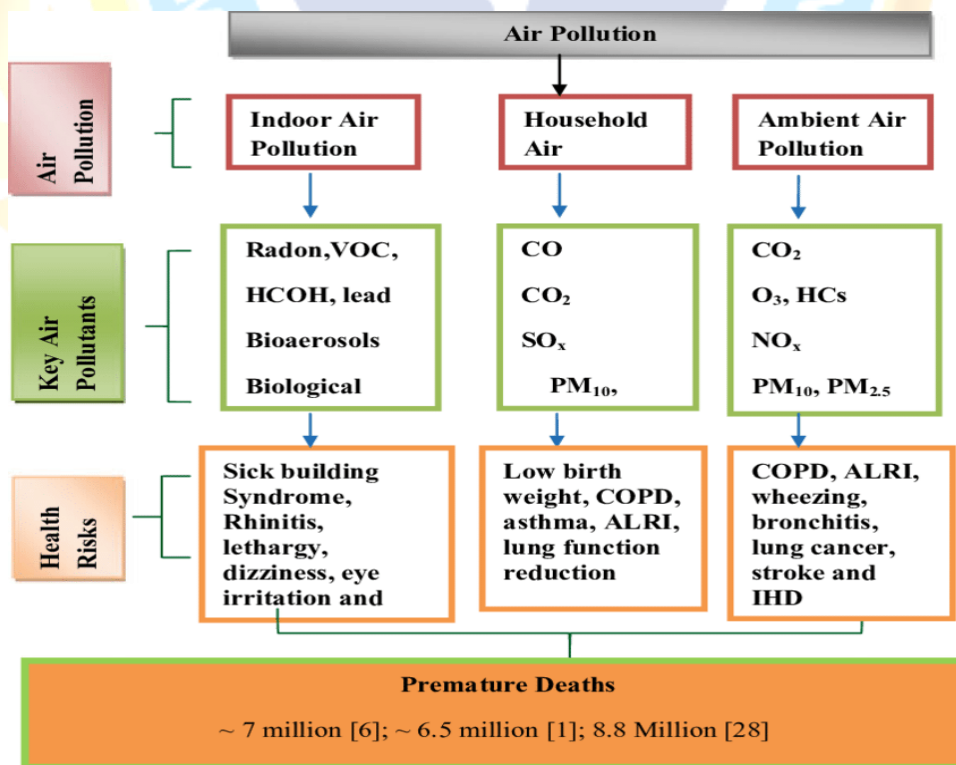
**News:** Across 10 cities — Ahmedabad, Bengaluru, Chennai, Delhi, Hyderabad, Kolkata, Mumbai, Pune, Shimla and Varanasi — more than 33,000 deaths could be attributed to air pollution every year on an average, the study said.

### What's in the news?

Recently, Lancet has published a **first multi-city study** examining the relationship between short-term **air pollution (PM<sub>2.5</sub>) exposure** and **mortality** in 10 major cities of India between 2008 and 2019.

### Key findings of the Study:

- **Air Pollution Causing Death:** The study revealed that over **33,000 deaths** (approximately **7.2%** of total mortalities) could be attributed to air pollution **annually** across the 10 investigated cities.
- **Highest Mortality Burden:** **Delhi**, exhibited the **most severe air pollution**, with a staggering **11.5%** (12,000 deaths) of annual deaths linked to air pollution.
- **Shimla Lowest Mortality:** Shimla emerged as the city with the **lowest mortality burden attributable to air pollution**, with only **59 deaths** (constituting 3.7% of total deaths) annually.
- **Chronic Exceedance of Safe Air Quality Standards:** There has been a persistent violation of established air quality standards. **PM<sub>2.5</sub>** concentrations consistently exceeded the **World Health Organization's (WHO)** safe limit (**15 µg/m<sup>3</sup>**) on an alarming **99.8%** of the days analyzed.





# PL RAJ IAS & IPS ACADEMY

MAKING YOU SERVE THE NATION

- **Deteriorating Health with Increasing Pollution Levels:** Every 10  $\mu\text{g}/\text{m}^3$  increase in PM2.5 concentration demonstrably resulted in a **1.42% rise** in mortality across the ten cities.
  - Cities with comparatively **lower pollution levels**, such as Bengaluru and Shimla, exhibited a **heightened susceptibility to mortality** increases with even incremental rises in PM2.5 concentrations.

Source: <https://indianexpress.com/article/india/air-pollution-behind-7-of-deaths-in-10-cities-lancet-study-9431526/>



**P.L. RAJ IAS & IPS ACADEMY | 1447/C, 3rd floor, 15th Main Road,  
Anna Nagar West, Chennai-40. Ph.No.044-42323192, 9445032221  
Email: plrajmemorial@gmail.com Website: www.plrajiasacademy.com  
Telegram link: https://t.me/plrajias2006 YouTube: P L RAJ IAS & IPS ACADEMY**