



# Pollution Related Syndromes and Their Reasons-Air Pollution, Water Pollution and Land Pollution

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- A Syndrome can be defined as the collection of signs and symptoms associated with a specific health-related cause.
- It is a characteristic combination of opinions, emotions, or behaviour.
- A Syndrome can have more than one identifying feature or symptom.
- For example, chronic fatigue syndrome is a neurological condition, diagnosed from a collection of symptoms in addition to the main symptom of post-exertional malaise.

## Pollution and Syndromes

### Air Pollution

<b>Pollutants</b>	<b>Sources</b>	<b>Syndromes</b>
Particulate Matter	Burning fossil fuels in vehicles, stubble burning, road dust etc.	Affects Lungs and Heart, Coughing, Difficult breathing etc.
Ground-level ozone	Photochemical reactions between oxides of nitrogen (NOx) and volatile organic compounds (VOCs) in the presence of sunlight.	Chest pain, coughing, throat irritation, congestion etc.
Carbon monoxide	Household appliances like gas fires, boilers, open fires which use gas, coal or wood, running a car engine within a closed space etc.	Headache, dizziness, vomiting, and nausea etc.
Sulfur dioxides	Electric power companies burning coal, Smelting of metals such as copper, zinc, lead, and nickel.	Eye irritation, tract infections, coughing, mucus secretion, chronic bronchitis etc.
Nitrogen oxides	Combustion of fossil fuels, produced from nitric acid, welding and using explosives etc.	Nausea, Headache, Difficulty breathing, Aggravation of respiratory diseases etc.

Lead	Paint, Dust, Soil, Drinking water etc.	Loss of appetite, Abdominal pain, Tired etc.
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*POLLUTION AND SYNDROMES*

## Water Pollution

<b>Pollutants</b>	<b>Sources</b>	<b>Syndromes</b>
Organic Wastes	Decay of animals and plants, waste and discharge from food processing factories etc.	Toxins to aquatic life, Death of sea animals due to contaminated water etc.
Pesticides	Chemicals used to kill insects, weeds, fungi etc.	Stinging eyes, rashes, blisters, blindness, nausea, dizziness, diarrhea, and death.
Radioactive Materials (Uranium, Thorium etc.)	Mining, Power Plants, Natural Sources etc.	Cancerous, Damage cells, respiratory and cardiovascular disease etc.
Sediments(Soil)	Land erosion from farms and construction sites	Increased prostate cancer, declines in sperm counts etc.
Heavy Metals(Lead,Mercury,Arsenic)	Household Chemicals, Industrial Discharges etc.	Cancer, disrupt immune and endocrine systems.

*WATER POLLUTION*

## Land Pollution

<b>Pollutants</b>	<b>Sources</b>	<b>Syndromes</b>
Untreated Human Wastes	Human Sewages(Wastes, Plastics, Glass, Paper)	Skin Diseases and Cancer

Harmful chemicals, such as uranium, being disturbed and released.	Mining	Cancer, Diarrhea, Skin and Eye irritation etc.
Toxins washed during rains	Landfills and Wastes	Diarrhea, Skin diseases, Typhoid etc.
Use of pesticides and insecticides to protect crops	Agricultural chemicals	Stinging eyes, rashes, blisters, blindness, nausea, dizziness, diarrhea and death.
Dirt and gravel, masonry and concrete, scrap metal, oil, solvents, chemicals, even vegetable matter	Industrial Wastes	Diarrhea, Stomach cramps, anxiety etc.

*LAND POLLUTION*

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