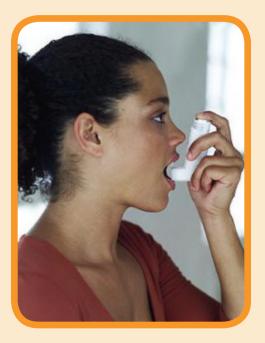
Effects of Common Air Pollutants

RESPIRATORY EFFECTS



Symptoms:

- Wheezing
- Shortness of breath
- Chest tightness

Increased sickness and premature death from:

Asthma

Cough

• Phlegm

- Bronchitis (acute or chronic)
- Emphysema
- Pneumonia

Development of new disease

- Chronic bronchitis
- Premature aging of the lungs



Airway Inflammation

• Influx of white blood cells

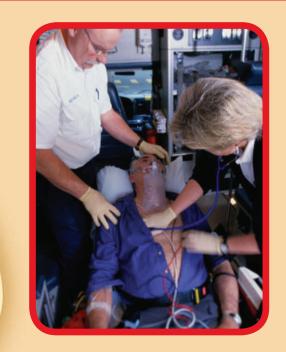
How Pollutants Cause Symptoms

Effects on Lung Function

 Narrowing of airways (bronchoconstriction)
Decreased air flow



CARDIOVASCULAR EFFECTS



Symptoms:

- Chest tightness
- Chest pain (angina)
- Palpitations
- Shortness of breath
- Unusual fatigue

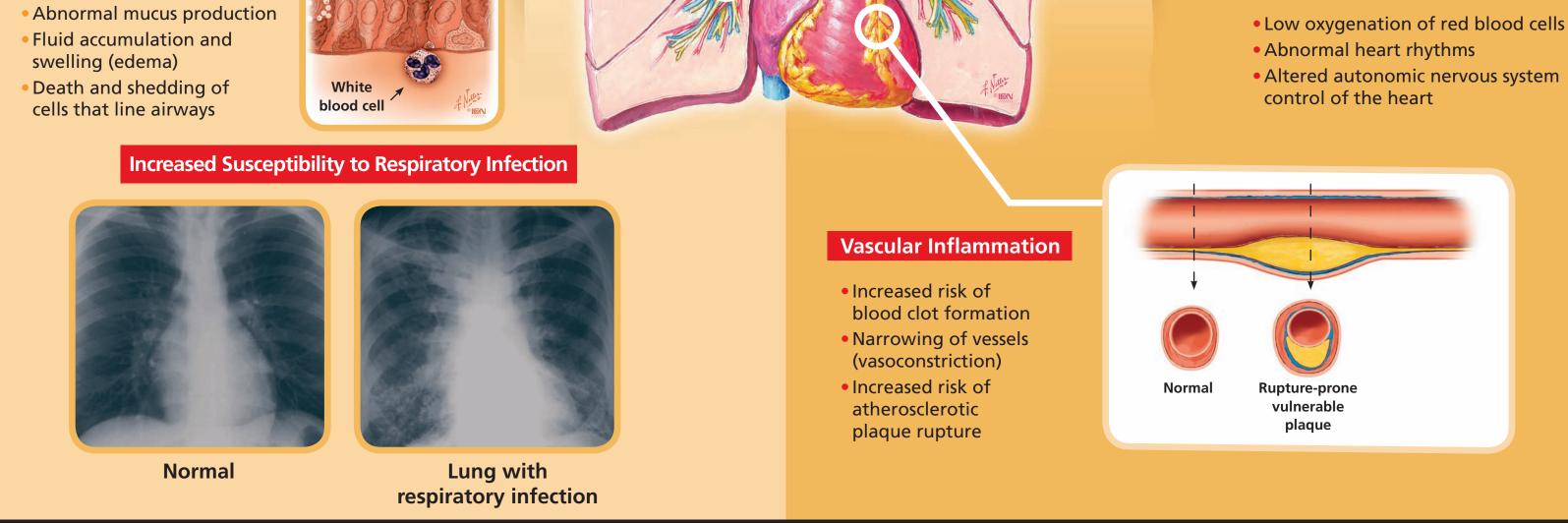
Increased sickness and premature death from:

- Coronary artery disease
- Abnormal heart rhythms
- Congestive heart failureStroke

How Pollutants Cause Symptoms



Effects on Cardiovascular Function



Reduce your risk by using the Air Quality Index (AQI) to plan outdoor activities – www.airnow.gov

AQI Levels of Health Concern	AQI Values	What Action Should People Take?
Good	0-50	Enjoy Activities
Moderate	51-100	People unusually sensitive to air pollution: Plan strenuous outside activities when air quality is better
Unhealthy for Sensitive Groups	101-150	Sensitive Groups: Cut back or reschedule strenuous outside activities Ozone: People with lung disease, children and older adults and people who are active outdoors Particle Pollution: People with heart or lung disease (including diabetics), older adults and children Carbon Monoxide: People with heart disease and possibly infants and fetuses Nitrogen Dioxide: People with lung disease, children and older adults Sulfur Dioxide: Active children and adults with asthma
Unhealthy	151-200	Everyone: Cut back or reschedule strenuous outside activities Sensitive groups: Avoid strenuous outside activities
Very Unhealthy	201-300	Everyone:Significantly cut back on outside physical activitiesSensitive groups:Avoid all outside physical activitiesEPA-456/H-11-002