

Estimating Health and Economic Impacts of Air Pollution in the West Midlands: AQ-LAT Toolkit

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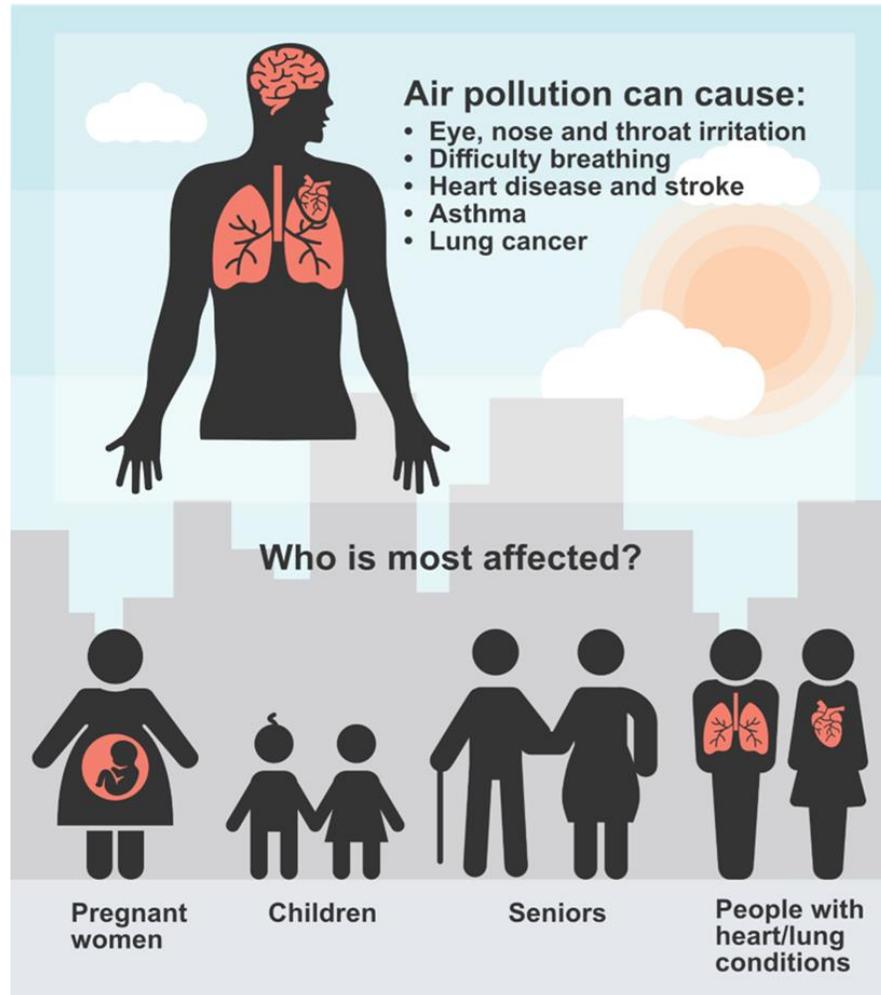
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WM-AIR
CLEAN AIR SCIENCE FOR
THE WEST MIDLANDS



Health Impacts of Air Pollution

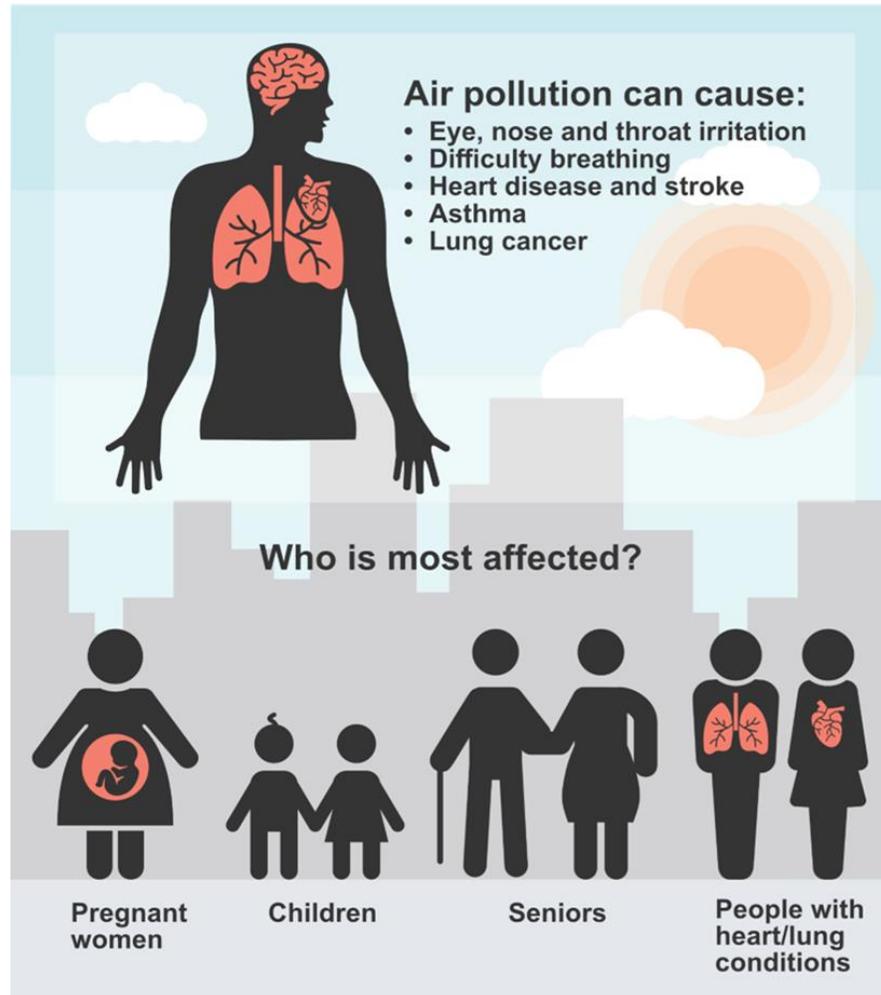


Key conditions (long-term exposure)

- Asthma (children/adults)
- Coronary Heart Disease
- Stroke
- Lung cancer
- Cognitive decline/dementia

Mortality (early death)

Health Impacts of Air Pollution



Morbidity

- Asthma (children/adults)
- Coronary Heart Disease
- Stroke
- Lung Cancer
- Cognitive decline/dementia

- Mortality (early deaths)

Health and Social Care Costs of Air Pollution

- Monetary costs
 - **Healthcare** – primary care/secondary care/prescriptions
 - **Productivity** – days off work
 - **Social care** – visits
 - **Quality of life** (Quality Adjusted Life Years – QALYs)
- Wider societal costs not included

Air Quality Lifecourse Assessment Tool (AQ-LAT)

- Free Excel toolkit available to download
- User guide and bespoke advice/support available

<https://wm-air.org.uk/project/health/>

The AQ-LAT User Guide can be viewed here >>

Please send AQ-LAT feedback to: wmair@contacts.bham.ac.uk

AQ-LAT
Air Quality Lifecourse
Assessment Tool
Download

To obtain the AQ-LAT please sign up using this form.

Email address

First name

Last name

Company or organisation

Interest in this briefing note

For more information and to download the tool click here >>



*Indirect costs reflect the time off work owing specifically to death-related absence, does not include productivity and care costs
 **Coronary Heart Disease

AQ-LAT Applications

- Health and economic impact assessment
 - WMCA/District/Ward level
- Policy options appraisal/optimisation
- Policy evaluation
- Business case development
- Cost- benefit analysis

Select Pre-Specified Scenario
WHO AQG Interim target 3 (annual average) NO2 (20µg/m3)
WHO AQG Interim target 4 (annual average) PM2.5 (10µg/m3)
WHO AQG Interim target 3&4 (annual average) NO2 (20µg/m3) & PM2.5 (10µg/m3)
WHO AQG level (annual average) NO2 (10µg/m3)
WHO AQG level (annual average) PM2.5 (5µg/m3)
WHO AQG level (annual average) NO2 (10µg/m3) & PM2.5 (5µg/m3)
2030 Clean Air strategy (NECD) Scenario
2030 Net Zero Scenario
2030 Electric Vehicle scenario; 24% CAR 25% BUS 9% HGV

Regional mitigation policy scenarios (examples)