



Caring for the Air

in the Metro Vancouver Region

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Air Quality and Health



Canadian Medical Association Air Pollution Health Effects

- Canada 2014:
 - 25,000 chronic premature deaths/year
 - >3,000 acute deaths/year

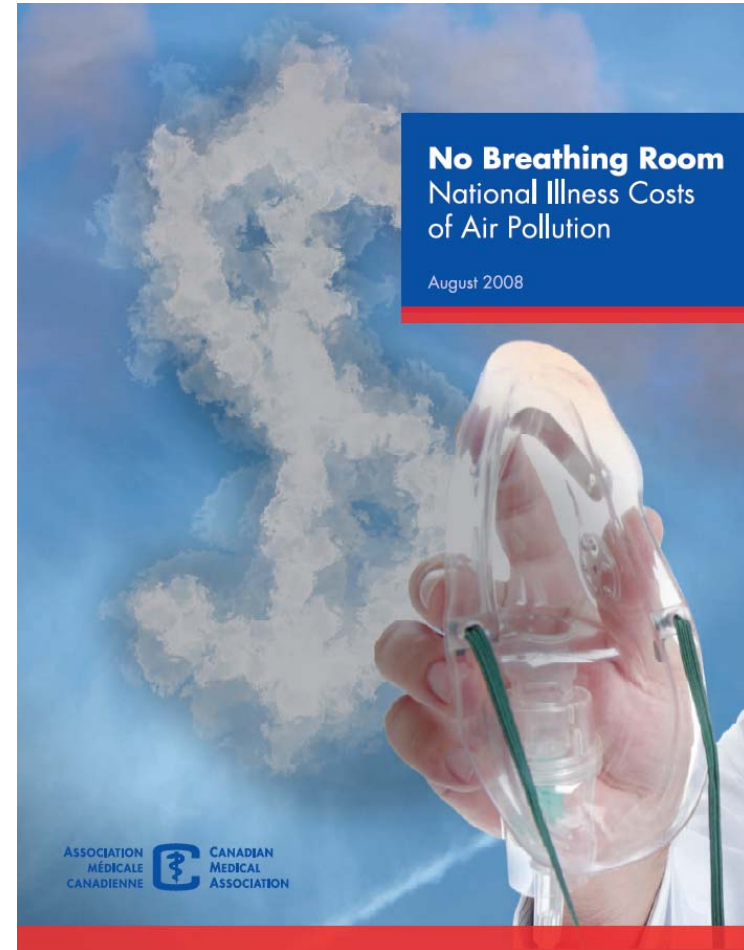
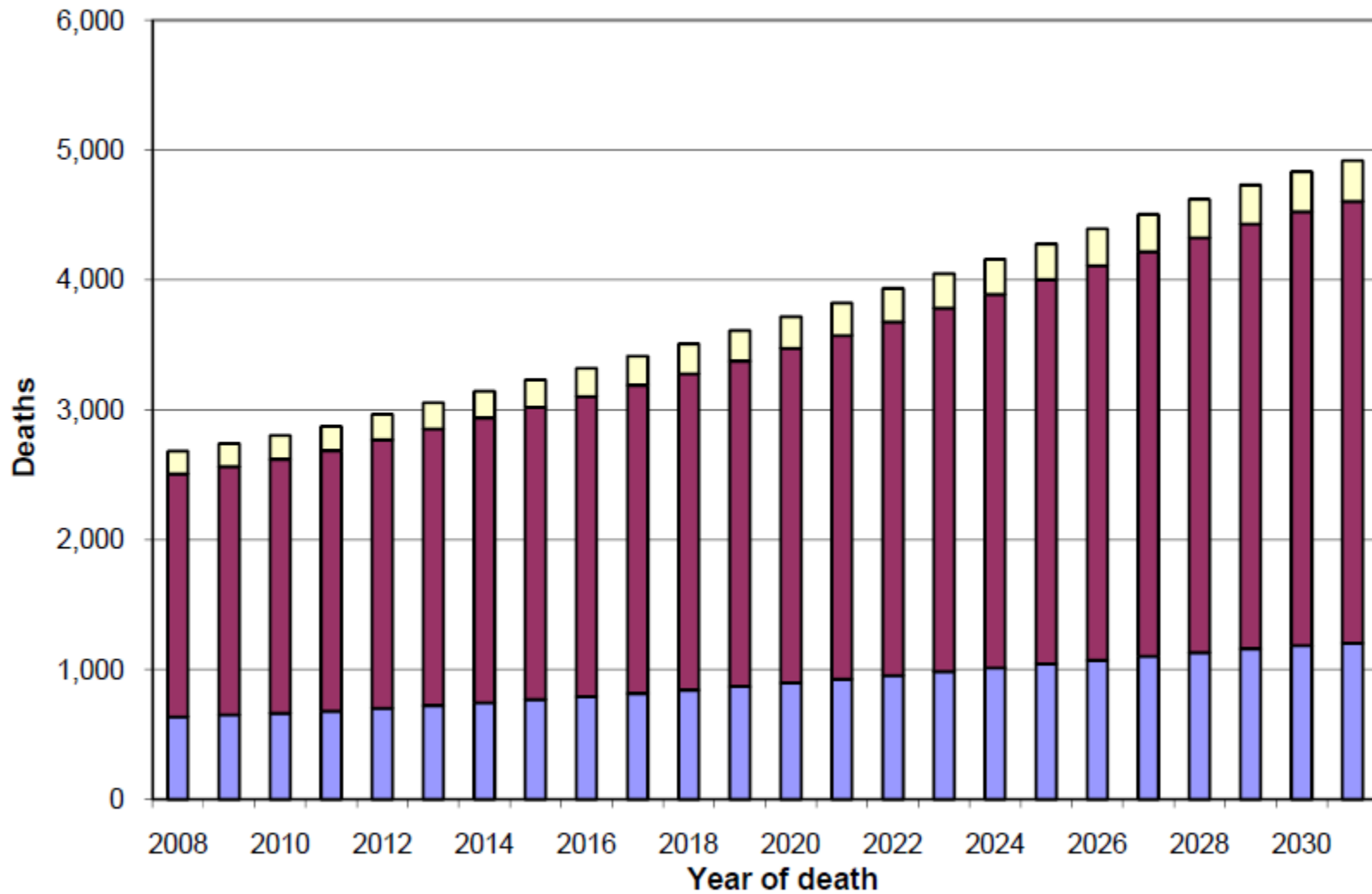


Figure 3
Acute premature deaths due to air pollution by region of Canada and year of death



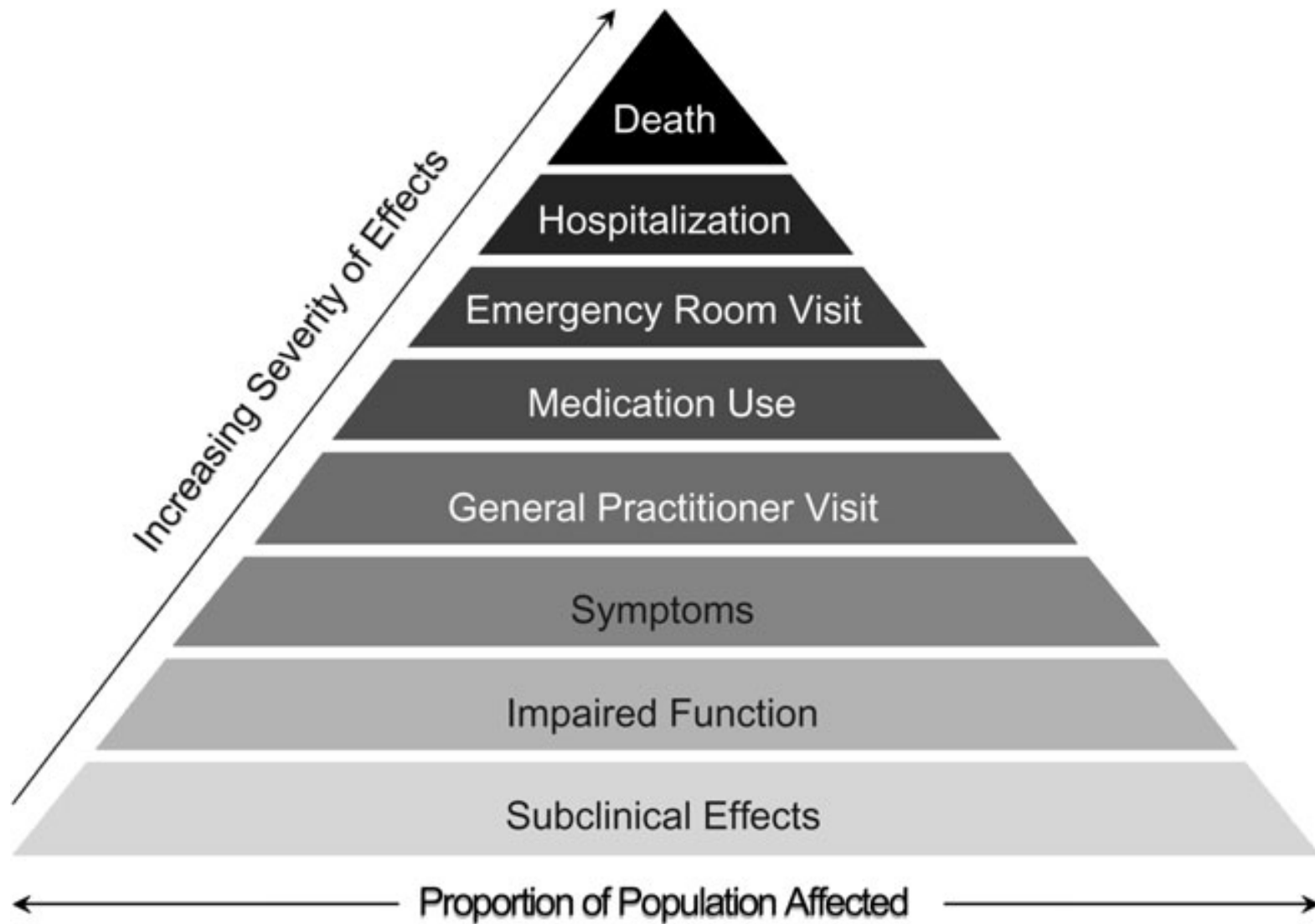
Note: Attributable to O3, PM2.5

■ Western ■ Central ■ Atlantic

CMA 2008

Table 1- National Health Effects Summary: 2008, 2015 and 2031 and Total (2008-2031)

	2008	2015	2031	Total (2008-2031)
Acute Premature Deaths	2,682	3,233	4,917	89,331
Hospital Admissions	10,966	12,685	17,748	339,830
Emergency Dept. Visits	92,690	107,896	152,266	2,889,030
Minor Illnesses	22,542,500	23,853,900	26,691,900	592,088,400
Doctor's Office Visits ('000)	623,369	707,872	940,055	18,618,523



Metro Vancouver

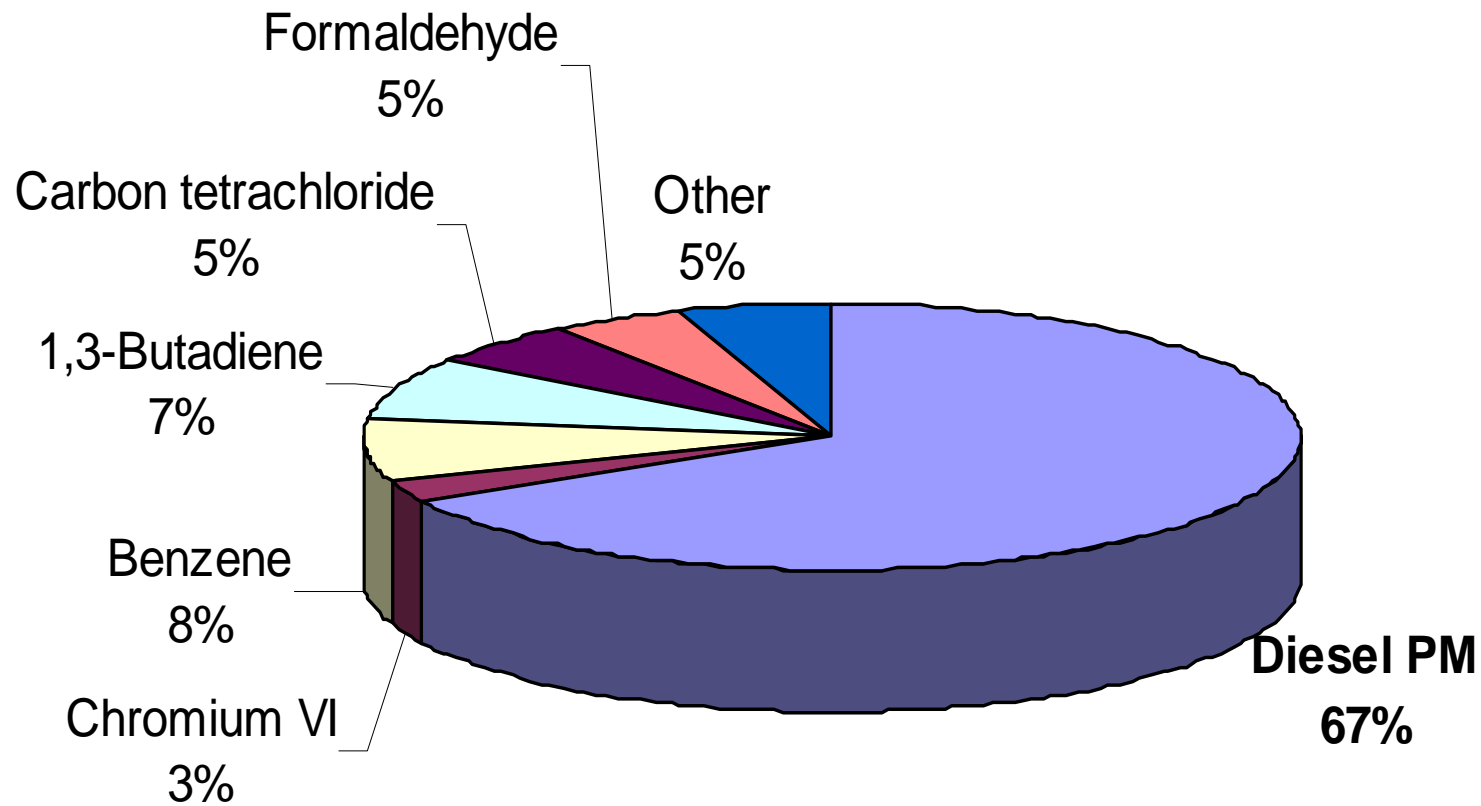
- Health Canada estimate 1998-2000:
- 680 deaths/year
 - 440 chronic
 - 230 acute
- 5% of all deaths

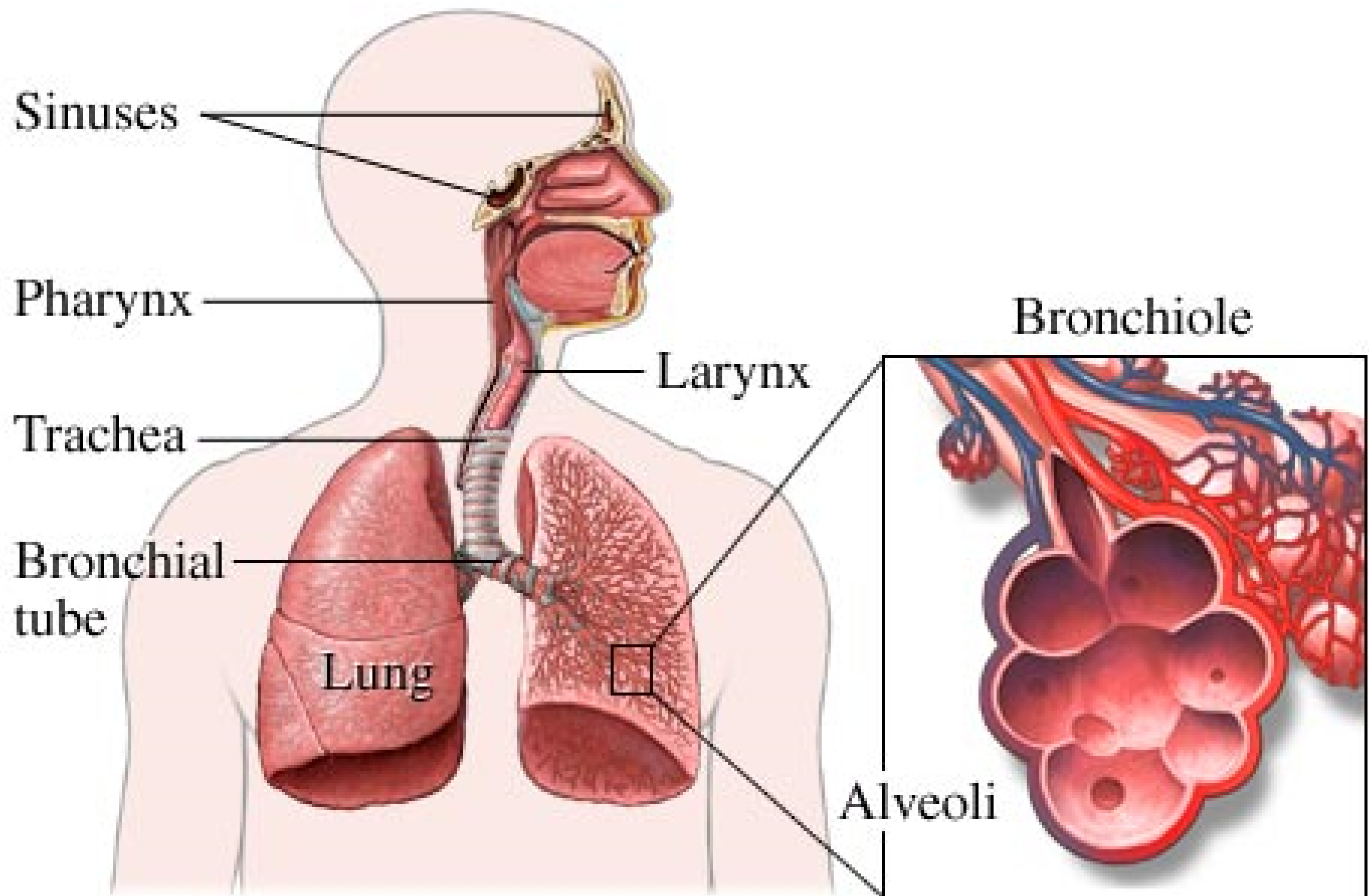


Health Effects

- Respiratory disease
 - Asthma onset in children, asthma exacerbation
 - Reduced lung function
- Cardiovascular mortality
- Cancer
 - Lung cancer, other cancers
- Premature birth and low birth weight

Apportionment of Lifetime Cancer Risk from Emissions of Air Toxics in Metro Vancouver (overall risk 526 per million)





What is your risk?

- Individual risk depends upon exposure
 - Age
 - Activity
 - Proximity to sources
- Off-road diesel emissions, heavy trucks, wood smoke



Reducing Risk

- Reduce source emissions
 - Vehicle emissions
 - Off-road diesel
 - Industry
 - Wood smoke
- Reduce exposure
 - Design healthy communities
 - Location of daycares, schools, nursing homes
 - Bike paths





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