Air Pollution and SPORT SAFETY



Sport organizations are responsible for ensuring the safety of sport participants, including athletes, spectators, coaches, and officials. Sport safety can be affected by **air pollution** levels.

What is air pollution?

Air pollution is a mixture of gases, particles and other chemicals that can adversely affect human health. Key outdoor air pollutants include:

- Ground-level Ozone (O3)
- Nitrogen Dioxide (NO2)
- Particulate Matter (PM2.5)

How does air pollution affect human health?

Air pollution can negatively affect health leading to:



Difficulties

breathing

SIRC









Worsening of chronic breathing diseases



Irritated lungs and airways





Electricity Agriculture generation



Forest fires Construction



Oil and gas industries Traffic



Wood burning Factories

Who is at risk?

Everyone experiences health issues on days when the air guality is poor, but some groups of individuals are at greater risk than others. These individuals include:

- Seniors, pregnant people, infants and young children
- People living near sources of air pollution such as busy roadways
- People with an existing illness or chronic health condition
- People engaging in outdoor physical activity, such as sport participants



Did you know?

Sport participants are at increased health risk because they breathe deeply and rapidly when they are exercising. The more heavily a person breathes, the more air pollutants that person will inhale.

Increased exposure to air pollutants = increased health risk

Reduce exposure to air pollution

- → Monitor local air quality alerts and follow public health advice regarding the safety of outdoor exercise
- > Schedule outdoor practices and games early in the morning or later in the evening to avoid exercising during rush hour traffic
- Choose outdoor practice and game locations away from major roadways to avoid traffic emissions
- When air quality is poor, postpone outdoor sports activities or, if possible, carry out the activity indoors

The air pollution levels in Canada are generally low, but there are times when air pollution levels rise, like during wildfire and extreme heat events. Be air aware Check the Air Quality Health Index (AQHI) at AirHealth.ca or through the WeatherCAN app to learn about the air quality in your area.

For more information, please visit www.AirHealth.ca or www.SIRC.ca