

Overview

Surveillance for work-related asthma can identify known and emerging exposures that cause this preventable disease.

We identified 784 valid cases using workers' compensation data for the period 2009 through 2016. Workrelated asthma was classified as work-aggravated asthma (WAA) or new-onset asthma, which includes occupational asthma (OA) and reactive airways dysfunction syndrome (RADS).

The purpose of this study was to provide an eight-year update for Washington's Work-Related Asthma Surveillance Program, which began in 2001. We describe a new case series for cannabis-associated asthma in the legalized cannabis industry.

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Research for Safe Work

The SHARP Program at the Washington State Department of Labor & Industries partners with business and labor to develop sensible, effective solutions to identify and eliminate industry-wide hazards. Learn more at www.Lni.wa.gov/Safety/Research

Research Findings

Asthma and Cannabis Exposure

Surveillance of work-related asthma including the emergence of a cannabis-associated case series in Washington State

Journal of Asthma, 2021 Carolyn Reeb-Whitaker, Claire Lasee, and David Bonauto

Key Findings

- Among all 784 valid work-related asthma cases identified in the surveillance system, most were classified as work-aggravated asthma (n=529), followed by occupational asthma (n=127) and RADS (n=12).
- The Health Care and Social Assistance Industry had the most cases of work-related asthma (n=170), with 82% classified as work-aggravated asthma.
- The highest proportions of new-onset asthma occurred in Agriculture (33%), Manufacturing (31%) and Construction (30%).
 - Across all industries, leading causes of new-onset asthma were hop plant dust, wood and cedar dust, mineral and inorganic dust, mold, and cleaning materials.

Cannabis-associated case series:

- Ten cases of cannabis-associated asthma occurred, with cannabis dust, fume, or smoke as the exposure source.
- Seven cases arose in cannabis production workers, following recreational marijuana legalization in 2012. Three workers had newonset asthma.

Impact

Surveillance data indicate that workers across many industry sectors continue to be at risk for work-related asthma. The value of state-based asthma surveillance includes the detection of regional emerging issues, such as the cannabis-associated case series that arose two years after the legalization of recreational cannabis. Further research is needed to characterize cannabis exposure and the clinical disease manifestation in these production workers.

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