

Maladies professionnelles, cancer et CAREX

Une maladie professionnelle – affection à laquelle est exposée une personne dans l'exercice de sa profession – peut souvent évoluer en cancer lié à l'exposition à des substances dangereuses, notamment l'amiante, des produits chimiques et des produits comme la silice utilisée dans les départements d'arts. Il est utile de repérer les dangers, de suivre des formations et d'être au fait des sources de renseignements fiables pour mieux évaluer les processus et les substances utilisés dans notre milieu de travail à des fins de sécurité et de prévention.

CAREX Canada (*CARCinogen EXposure Canada*) est une ressource indispensable pour les associations de personnel académique membres de l'ACPPU et constitue une excellente source de renseignements pour les fiches d'information de l'ACPPU sur la santé et la sécurité. CAREX est « un projet de recherche multi-institutionnel qui combine l'expertise de chercheurs universitaires et des ressources au niveau du gouvernement pour générer un programme de surveil-lance pragmatique et factuelle des cancérogènes au Canada. CAREX est un projet de surveillance national qui a pour but d'estimer le nombre de Canadiens exposés aux substances associées au cancer dans les milieux de travail et dans les collectivités. Ces estimations fournissent un support important pour cibler les straté-gies de réduction des expositions et les programmes de prévention du cancer. »

Les associations de personnel académique et les membres de leur comité mixte de santé et sécurité (CMSS) doivent s'assurer que l'employeur met en place de solides protocoles pour évaluer et identifier toutes les substances potentiellement dangereuses préalablement à leur utilisation en milieu de travail et, dans l'éventualité où la substance est utilisée, que toutes les réglementations et les normes de sécurité nécessaires soient adoptées et strictement respectées.

L'employeur doit veiller à éliminer, à remplacer ou à réduire les substances dangereuses en milieu de travail afin de parer aux risques d'exposition susceptibles de provoquer des maladies et des cancers professionnels.

CAREX a élaboré une courte fiche sur les maladies professionnelles et le cancer qui montre le lien entre les deux. Vous trouverez de plus amples renseignements sur le site Web de CAREX au www.carexcanada.ca.

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**Manipuler correctement
les substances
dangereuses en milieu
de travail doit être
une priorité.**

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Occupational disease: Spotlight on cancer

Exposures in Canadian academic workplaces

Occupational disease in Canada

Occupational disease is an unfortunate reality in many workplaces, including academia. In this environment workers' health can be affected by a number of different hazards, from poor work design that can cause back pain or repetitive strain injuries, to exposure to substances such as mould that can cause respiratory illness.

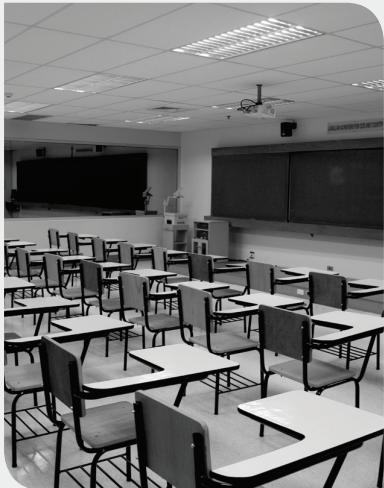
The focus of this fact sheet is exposure to hazardous substances known or suspected to cause cancer.

The World Health Organization estimates that up to 19% of all cancers are attributable to the environment, including work settings, resulting in 1.3 million deaths each year worldwide.¹ According to occupational compensation claims, the most common cause of workplace deaths in Canada is mesothelioma, a cancer that is caused almost exclusively by asbestos exposure.²

Figure 1: Important carcinogens that can be found in academic workplaces

Carcinogenic agent	Health effects	Main route of exposure	Main sources of exposure in academic workplaces
Asbestos 	Asbestos is a group of naturally occurring fibrous minerals. According to Canadian workplace compensation claims, it is the leading cause of workplace death in Canada. ² Mesothelioma (a cancer of the protective lining of many internal organs) Lung, laryngeal, and ovarian cancer Asbestosis (scarring of the lungs)	Inhalation	Working in asbestos-containing buildings that are undergoing renovations or have deteriorating asbestos insulation
Radon 	Radon is a naturally occurring radioactive gas that is released from the ground and can accumulate indoors (typically in basements). It is the second leading cause of lung cancer in Canada. ³ Lung cancer	Inhalation	Working in areas and rooms with higher concentrations of radon (e.g. basements)
Silica dust 	Silica is a naturally occurring mineral found in soil, sand, and rocks. Approximately 380,000 Canadians are exposed to silica at work. ⁴ Lung cancer Silicosis (scarring of the lungs) Chronic obstructive pulmonary disease (COPD) Rheumatoid arthritis Tuberculosis	Inhalation	Inhaling dust created during ceramic and sculpture work

Occupational disease in Canada continued...



CAREX Canada is the country's leading source of evidence on Canadians' exposures to substances known or suspected to cause cancer in the workplace. The project shows that in universities and colleges, workers may be exposed to asbestos from older buildings undergoing renovations, formaldehyde or solvents (e.g. chloroform) in research laboratories, radon in basement classrooms, silica from ceramic and sculpture work, and carbon black in printer toners and inks. Other exposures, such as tobacco smoke, can increase a workers risk of developing cancer even further when they're also exposed to substances like radon and asbestos.

Radon, an invisible radioactive gas, is the second leading cause of lung cancer in Canada.³

Understanding and reducing exposure to these and other substances at work is crucial for preventing occupational cancer and other diseases.

CAREX Canada

CAREX (CARcinogen EXposure) Canada is the country's leading source of evidence on Canadians' exposures to workplace and environmental carcinogens. Based at Simon Fraser University in British Columbia, CAREX Canada offers a better understanding of which known and suspected carcinogens Canadians are exposed to and where such exposures may occur.

By offering this knowledge, CAREX helps to inform efforts to reduce exposures to carcinogens and thereby helps to prevent cancer. For example, CAREX Canada resources can be used to determine what exposures a worker might face in a particular job, or to identify populations at risk of exposure to particular carcinogens.

CAREX Canada also offers estimates of the number of Canadians exposed to carcinogens at work. Their eWORK Tool, which is available under the [Tools tab](#) on their website, allows users to explore CAREX exposure data by carcinogen, sector, occupation, province, sex, and exposure level.

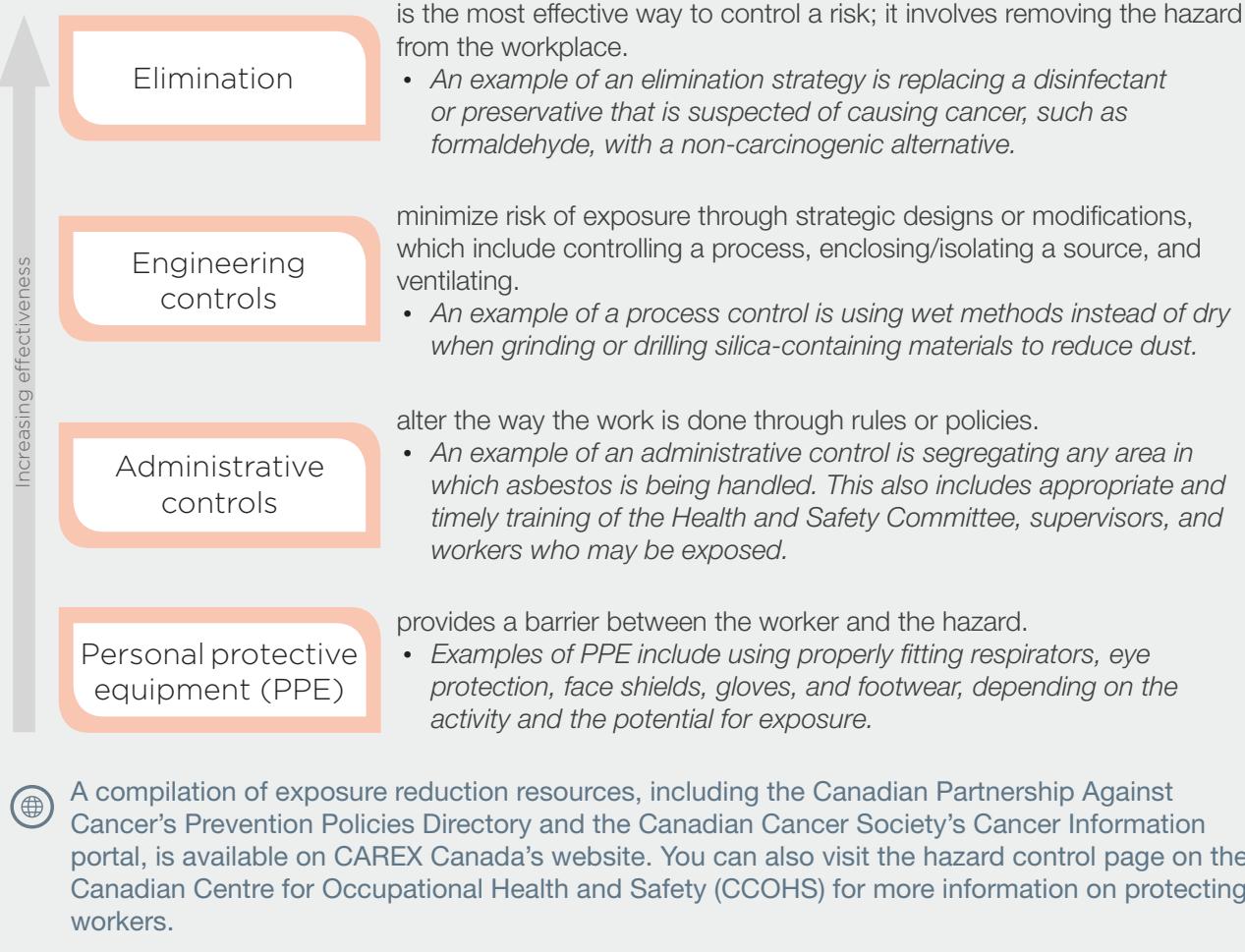
The CAREX Canada website also contains detailed information on use, exposure routes, and health effects for a number of occupational carcinogens. A sample of these is summarized in Figure 1.



More information, including regulations and guidelines for each agent, methods for calculating exposure level estimates, and a list of references, is available under the [Profiles and Estimates](#) tab of the CAREX Canada website.

Preventing exposures

A variety of strategies can help protect workers from exposures to harmful substances such as carcinogens. These strategies are listed below in order of effectiveness in controlling a risk. It is always best to try to control the hazard at the source first.



Where can you learn more?

- Visit our website at www.carexcanada.ca
- Follow us on Twitter @CAREXCanada
- Email us at info@carexcanada.ca

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References

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