

Overview of Occupational and Environmental Medicine

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- The information presented in this program is based on recent information that is explicitly "evidence-based".
- This Program and its material is peer reviewed and all the recommendations involving clinical medicine are based on evidence that is accepted within the profession; and all scientific research referred to, reported, or used in this CME/CPD activity in support or justification of patient care recommendations conforms to the generally accepted standards

Learning Objectives



By the end of this session, participants will be able to:

- Describe the roles and functions of an occupational health team and those of occupational physicians
- 2. Recognize the common categories of occupational medical conditions
- Explain the relationship between the occupational and environmental aspects of OEM



Occupational Health



Occupational health is an area of work in public health to promote and maintain the highest degree of physical, mental and social well-being of workers in all occupations. Its objectives are:

- 1. The maintenance and promotion of workers' health and working capacity;
- 2. The improvement of working conditions and the working environment to become conducive to safety and health;
- 3. The development of work organization and working cultures that should reflect essential value systems adopted by the undertaking concerned, and include effective managerial systems, personnel policy, principles for participation, and voluntary quality-related management practices to improve occupational safety and health.

Occupational Health Teams

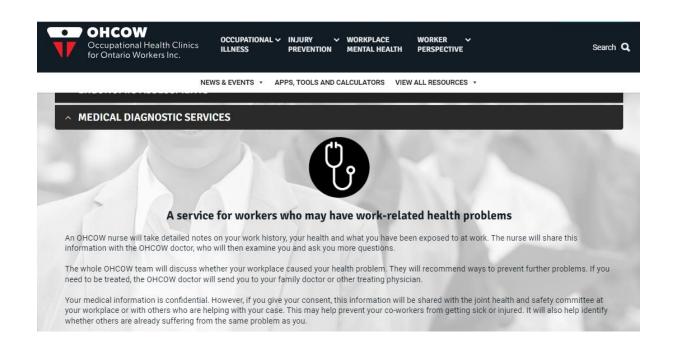


- Certified Occupational Nurses Occupational Health Nurses
- Nurses working in Occupational Health non-certified in OH
- Administrative Assistant
- Physician
 - ➤ Specialty trained in Occupational Medicine
 - ➤ Canadian Board of Occupational Medicine
 - ➤ Other qualifications / experience
- Occupational Hygienist
- Safety Professional





- In-House provision
- Group provision
- Contracted services
- Social provision



https://www.ohcow.on.ca/

Mad-Hatter Symptoms Confused by Diabetes Mims Magazine 1993; 20:30

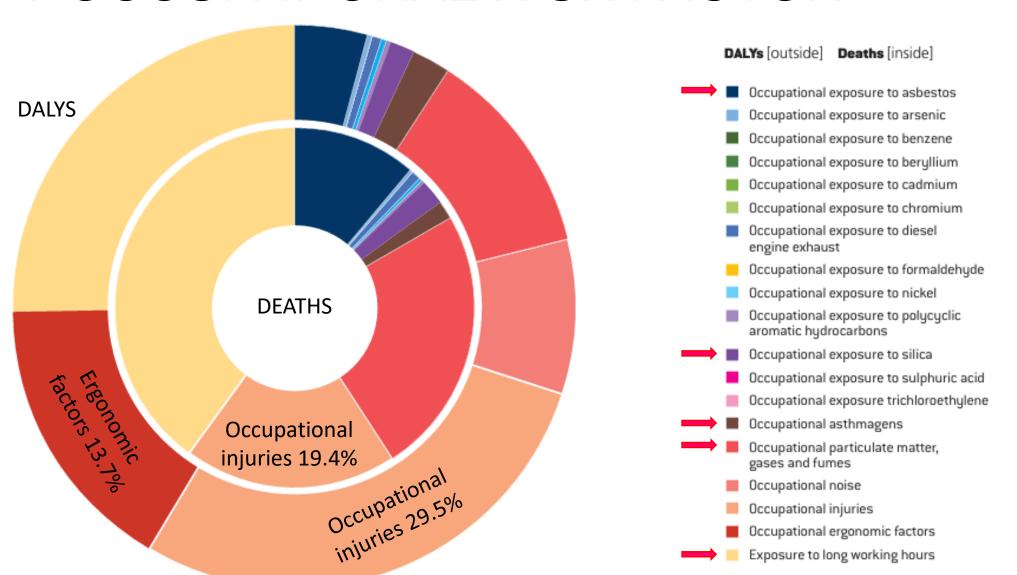




PROPORTIONS OF DEATHS AND DALYS, BY OCCUPATIONAL RISK FACTOR



Environmental Medicine

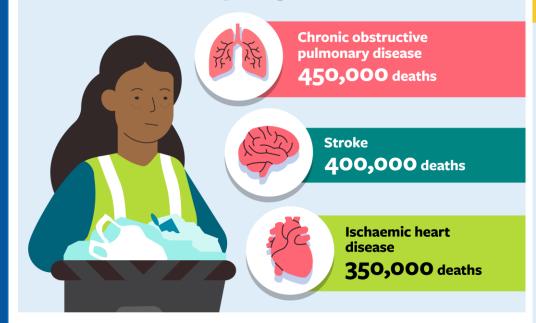


WHO/ILO Joint Estimates of the Work-Related Burden of Disease and Injury 2000-2016



Occupational and Environmental Medicine

The work-related health conditions that cause the most deaths per year are

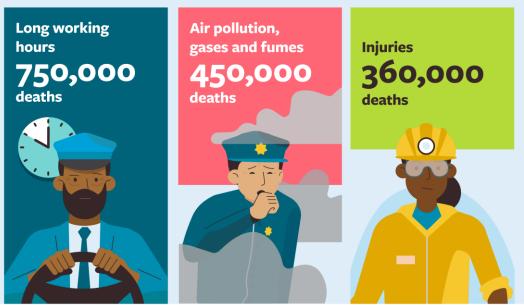


#WorkersHealth





The risk factors at work which cause the most deaths per year are





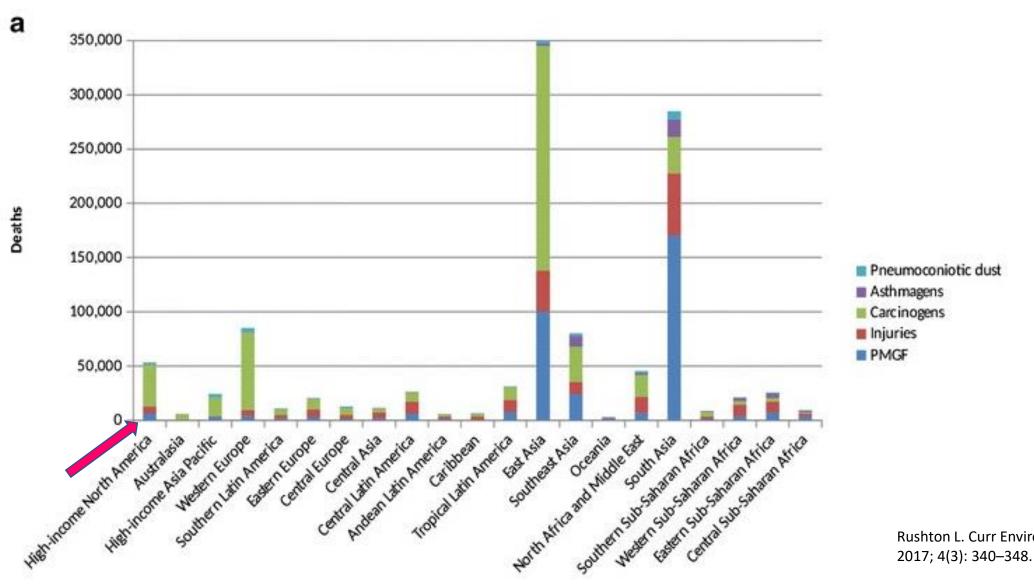




Numbers of Global Occupationally-Related Deaths in 2015 by WHO Region and Major Disease Group



Medicine



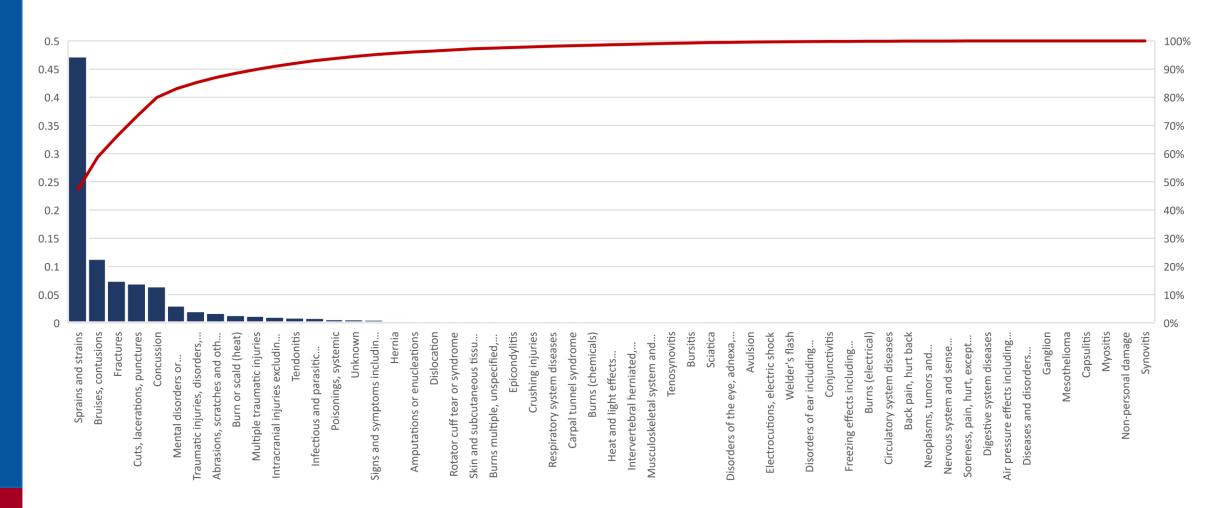
Rushton L. Curr Environ Health Rep.

What is Seen in Ontario?



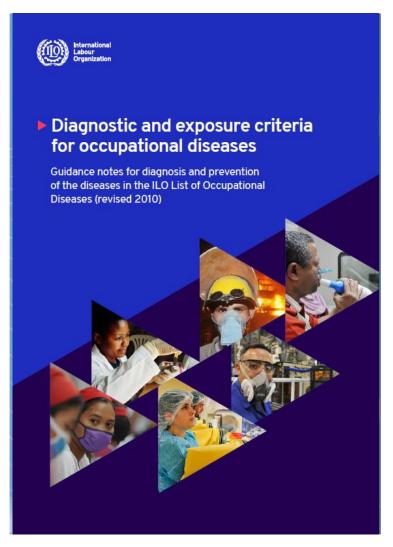
Medicine

WSIB 2018 Lost Time Claims by Nature of Injury (%)



International Labour Organization (ILO) List of Occupational Diseases





97 listed diseases with 9 open items

4 categories:

Category 1 Occupational diseases caused by exposure to agents arising from work activities, divided into a section for diseases caused by chemical agents, diseases caused by physical agents, biological agents and infectious or parasitic diseases.

Category 2 Occupational diseases by target organ systems; 4 sections; Respiratory, Skin diseases, Musculoskeletal disorders and Mental and Behavioural disorders.

Category 3 Occupational cancer listed by specified agents.

Category 4 other diseases.

What Does an Oiler Do For a living?



Job Description: Marine Oiler

- 1) Oils and greases moving parts, such as gears, shafts, and bearings, of engines and auxiliary equipment used to propel maritime vessels: Examines machinery for specified pressure and flow of lubricants.
- 2) Fills oil cups on machinery with grease and lubricating oil, according to machinery lubrication instructions.
- 3) Reads pressure and temperature gauges and records data in engineering log.
- 4) Assists Engineer in overhauling and adjusting machinery.
- 5) May lubricate deck machinery when vessel is unloading cargo

Think Work!



- What is the patient's job?
- Could the disease be due to a work exposure?
- What has the patient been exposed to at work?
- Is the exposure enough (dose) to cause the disease?
- Did the exposure start long enough ago (duration) to cause the disease?





Occupational and Environmental Medicine

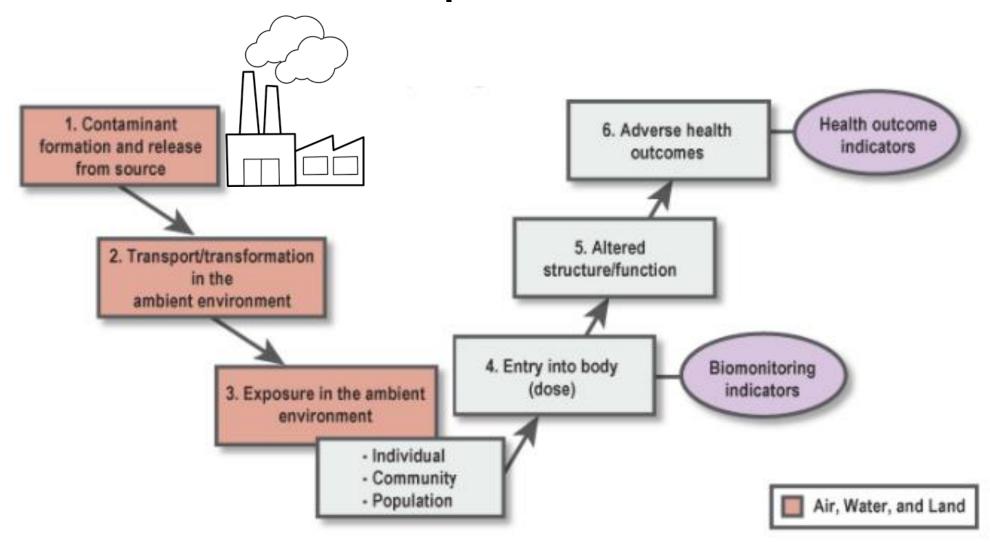
Why use it?

- Time management
- Record keeping
- Communication
- Collaboration
- Assessment
- Environmental exposures
- Disclosure of information
- Prognosis
- Special populations (adolescents, pregnant workers)

	urre					er understand the possible effect your health on your ability to d
Name:_				Date	of Birth	(YYYY/MM/DD):
□ S □ F	mplo elf-er ull-tir	ed by an organization ployed full-time / p.	on full-time / part- art-time / on leave age student / Hom	time /	on leave	
	If not currently employed, when was your last approximate date worked and how long did youwork a that job? Last date worked YYYY/MMM $___/__$					
How	long	vere you employed	in your last job		ears	Months (Go to question 4)
3. How	long	ave you been at you	ur current job?	Y	ears	Months
title	and b		ile: Fruit picker, Le	gal se	cretary, I	ljob title? (Please give your full jo Restaurant manager, Secondary
5. For y	and b of tea our c detail	specific. For examp ther, Dry waller, Hea irrent or last job wo s, for example: pickli	nle: Fruit picker, Le tryy Equipment Me rked, what are/we ng and carrying ap restaurant and ser	gal sec chanic ere you ples a ving c	ur main t	
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Environmental Exposure and Health

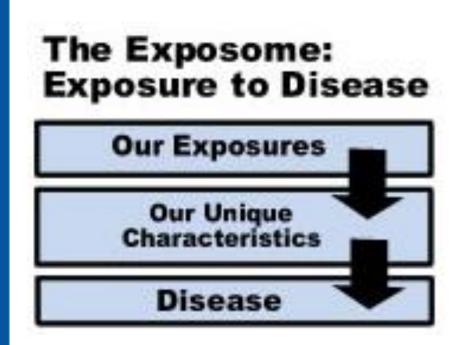


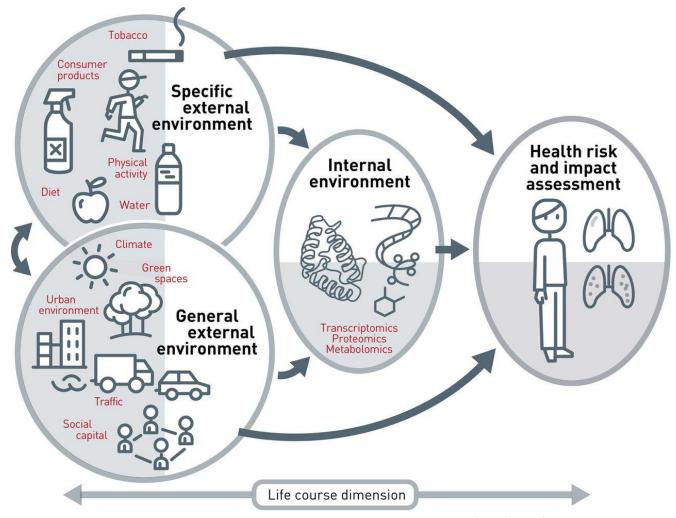


https://www.epa.gov/report-environment/human-exposure-and-health

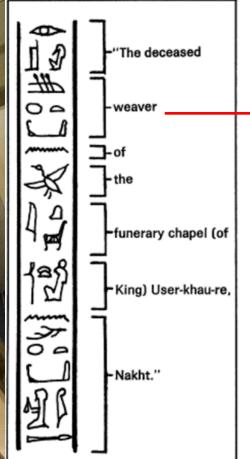
What is the Exposome?











5244 – Artisans and craftspersons



Thank you,

Anil Adisesh

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Coffin for the Mummy of Nakht Western Thebes, Egypt, about 1190 BC

Nakht was a young weaver from a small temple on the west bank of the Nile.

His mummy was autopsied in Toronto in 1974. When Nakht died about three thousand years ago, someone in his family loved him enough to ensure that he was buried in a good quality coffin, where his name and occupation were recorded for all eternity.

910.4.1-2