

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

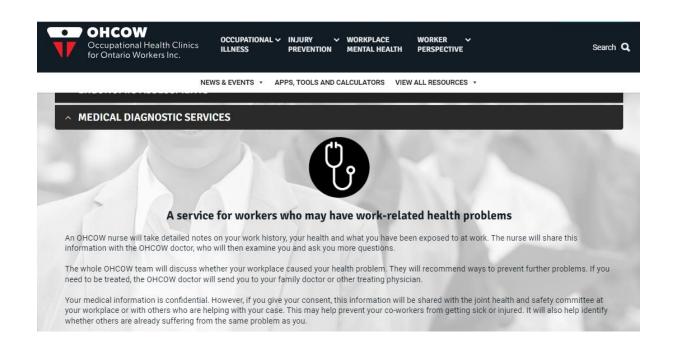


- Certified Occupational Nurses Occupational Health Nurses
- Nurses working in Occupational Health non-certified in OH
- Administrative Assistant
- Physician
 - ➤ Specialty trained in Occupational Medicine
 - ➤ Canadian Board of Occupational Medicine
 - ➤ Other qualifications / experience
- Occupational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

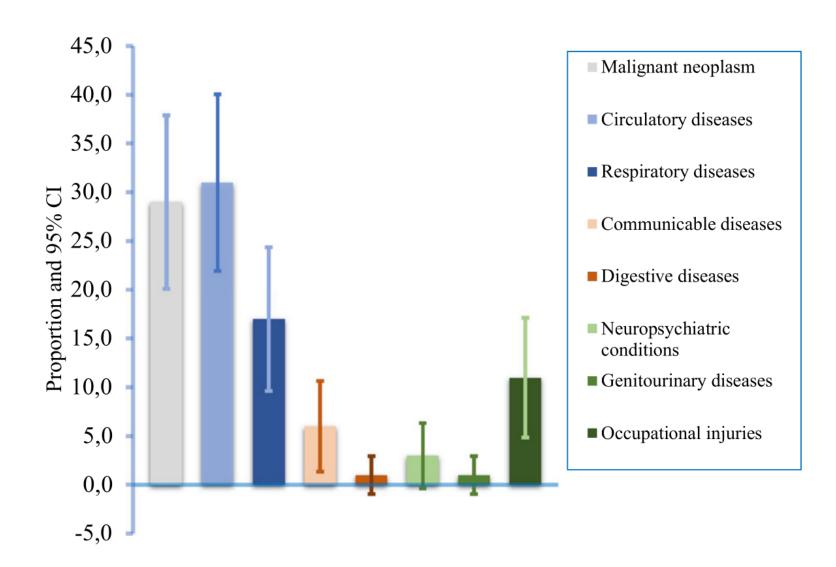




Global proportion of disease specific, work-related mortality in 2019



Environmental Medicine

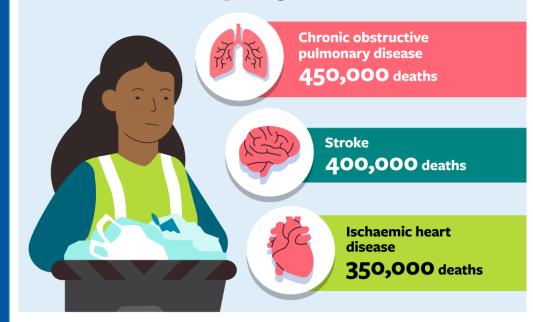


WHO/ILO Joint Estimates of the Work-Related Burden of Disease and Injury 2000-2016



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





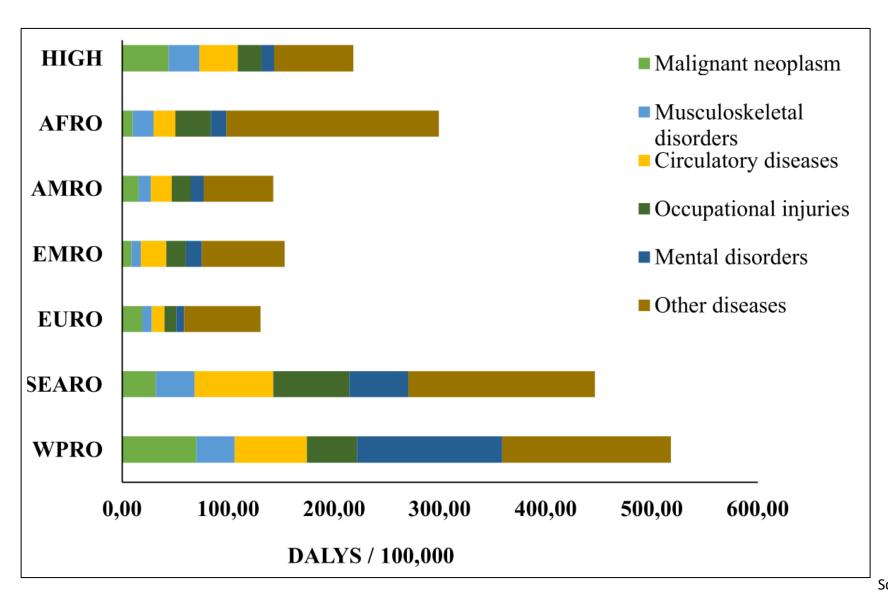




Cause specific work-related disability adjusted life years (DALYs) by WHO regions 2019



Medicine



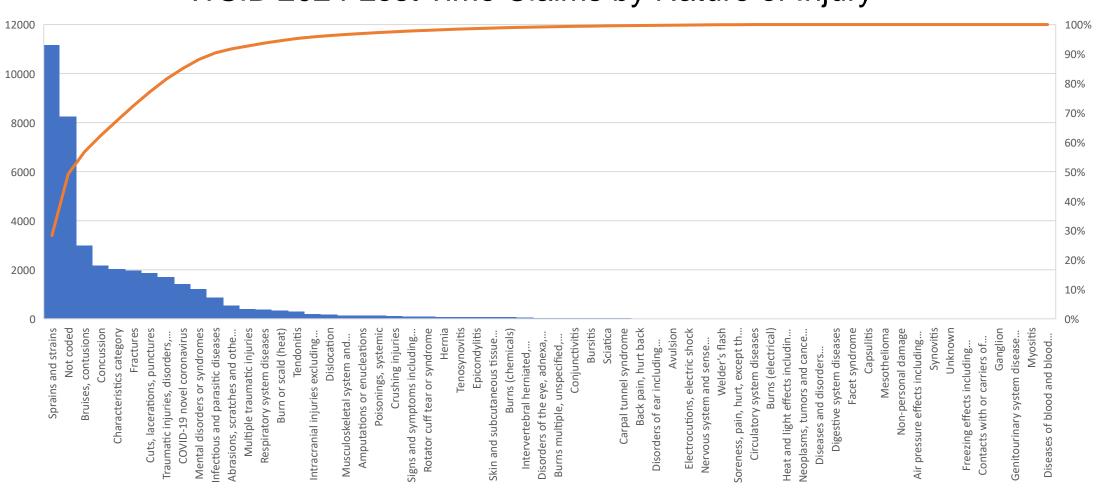
HIGH=high-income group
AFRO=Africa region
AMRO=America region
EMRO=Eastern Mediterranean region
ERO=European region
SEARO=South-East Asia region
WPRO=Western Pacific region

What is Seen in Ontario?



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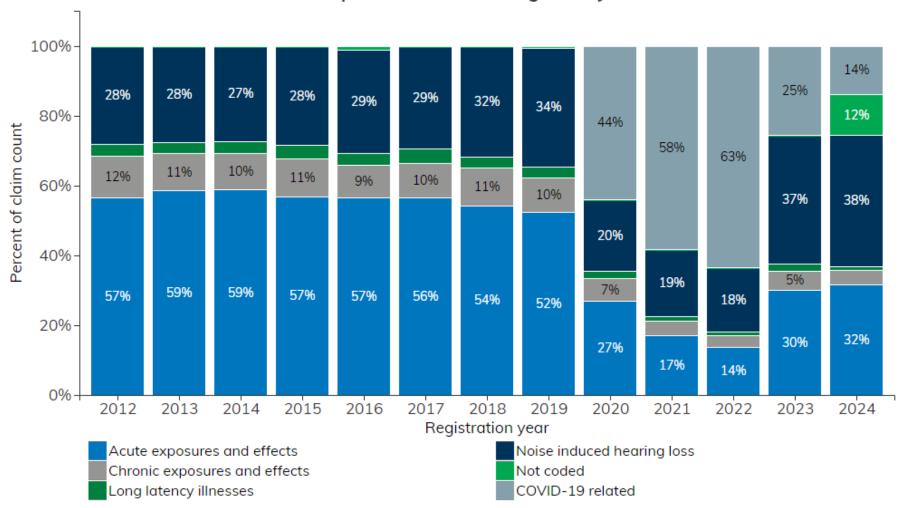
WSIB 2024 Lost Time Claims by Nature of Injury



What is Seen in Ontario?

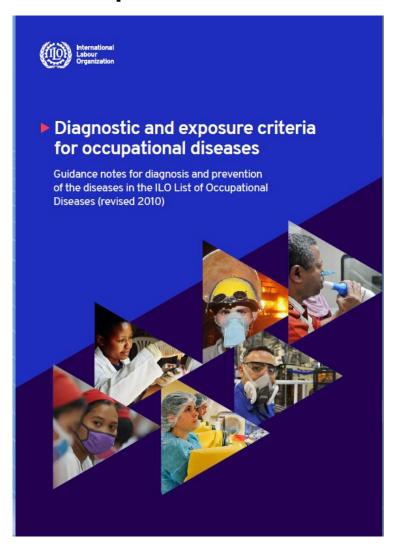


Allowed occupational disease categories by count 1



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

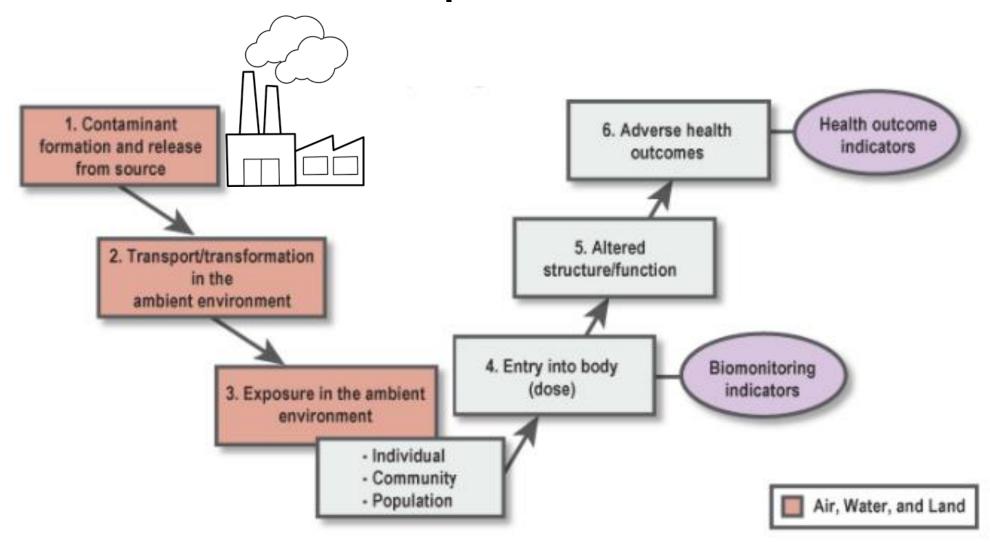
Why use it?

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

	our answers to these questions will help your health your current or previous work on your health/well our work.		
Na	ome:	Date of Birth	(YYYY/MM/DD):
1.	What is your current employment status? (Check and to Employed by an organization full-time / part-time.) Self-employed full-time / part-time / on leave (Full-time university or college student / Homen benefits/ Retired (Go to Question 2)	ne / on leav Go to questi	e (Go to question 3) on 3)
2.	If not currently employed, when was your last approximate date worked and how long did youwork at that job? Last date worked YYYY/MMM /		
	How long were you employed in your last job	Years	Months (Go to question 4)
3.	How long have you been at your current job?	Years	Months
4.	For your current or last job worked, what was your occupation/job title? (Please give your full job title and be specific. For example: Fruit picker, Legal secretary, Restaurant manager, Secondary school teacher, Dry waller, Heavy Equipment Mechanic)		
5.	For your current or last job worked, what are/were your main tasks or duties in the job? (Please give details, for example: picking and carrying apples and peoches, preparing legal documents, managing the operations of a restaurant and serving customers, teaching mathematics, taping and sanding walls, grinding and using impact wrenches)		
	and sanding walls, grinding and using impact wren	ciiesj	
6.	Do / did you work in more than one job at the sam	000,800	/No
		e time? Yes	ule in your current main job (or offer midnight. An

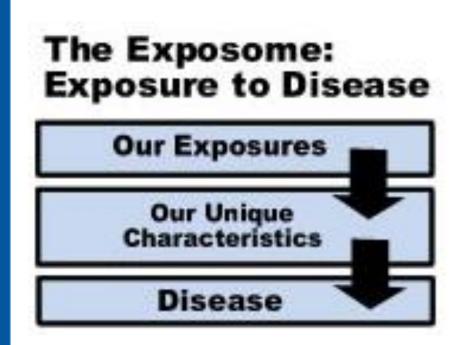
Environmental Exposure and Health

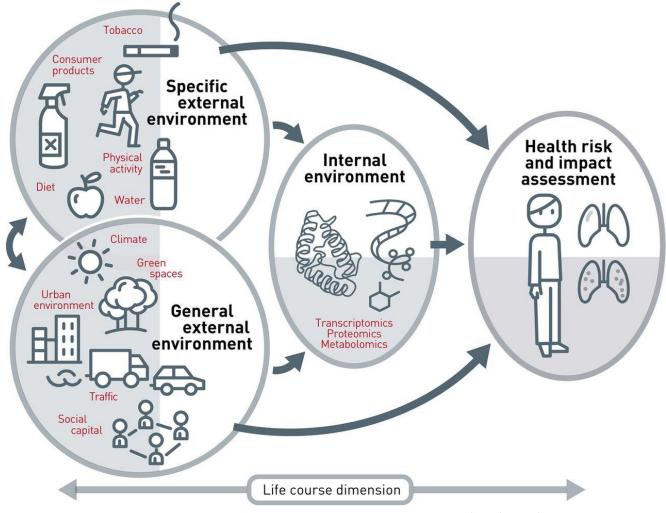




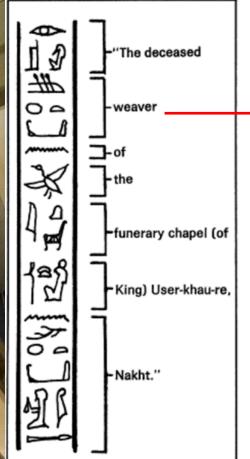
What is the Exposome?











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