

Diagnosis and Management of Work-Related Injuries and Illnesses

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Faculty/Presenter Disclosure



- Faculty: Anil Adisesh, MB ChB, MSc, MD, FRCP, FFOM, FFCI, FRCPC, Hon. FFOM, (Ireland), CIME
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 - Other: Director OccupAl Inc. start-up in occupational health informatics, Chief Medical Officer at Canadian Health Solutions Inc.





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- Potential for conflict(s) of interest:
 - None





- 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:

- 1. Define occupational illness and occupational injury
- 2. Evaluate a patient for a suspected occupational or environmental illness/injury
- 3. Outline a return-to-work plan





- "accident" includes,
- (a) a wilful and intentional act, not being the act of the worker,
- (b) a chance event occasioned by a physical or natural cause, and
- (c) disablement arising out of and in the course of employment; ("accident")

[Workplace Safety and Insurance Act, 1997, S.O. 1997, c. 16, Sched. A]

Definitions



An **occupational disease** is a health problem caused by exposure to a workplace health hazard. Your workplace should be healthy for your body and mind. You can help keep yourself and your workplace healthy by being aware of health hazards in your environment.

These workplace health hazards can cause an occupational disease:

- dust, gases, or fumes
- noise
- toxic substances (poisons)
- vibration
- radiation
- infectious germs or viruses
- extreme hot or cold temperatures
- extremely high or low air pressure

(See https://www.wsib.ca/en/businesses/claims/occupational-disease-and-workplace-health-hazards)

Ontario Workplace Safety and Insurance Act, 1997, s.2.



- "occupational disease" includes,
- (a) a disease resulting from exposure to a substance relating to a particular process, trade or occupation in an industry,
- (b) a disease peculiar to or characteristic of a particular industrial process, trade or occupation,
- (c) a medical condition that in the opinion of the Board requires a worker to be removed either temporarily or permanently from exposure to a substance because the condition may be a precursor to an occupational disease,
- (d) a disease mentioned in Schedule 3 or 4, or
- (e) a disease prescribed under clause 15.1 (8) (d); ("maladie professionnelle")

Taking an Occupational History



What job do you do now (job title)?

What do you do at work (activities)?

Chronologically list all jobs from leaving school (with dates, if possible)

Do you know of any Hazards or Risks in your work? Are there any vapours, gases, dusts or fumes?

- List all materials used by the worker (Safety Data Sheet, SDS)
- Estimate duration and intensity of exposure to substance

Do you have to wear any protective equipment at work e.g. masks / gloves

Taking a History for Occupational Disease



Is there any special ventilation of the workplace? (general, local, enclosed process)

Are your symptoms the same, better or worse on rest days? *Followed by* Are your symptoms the same, better or worse on holidays?

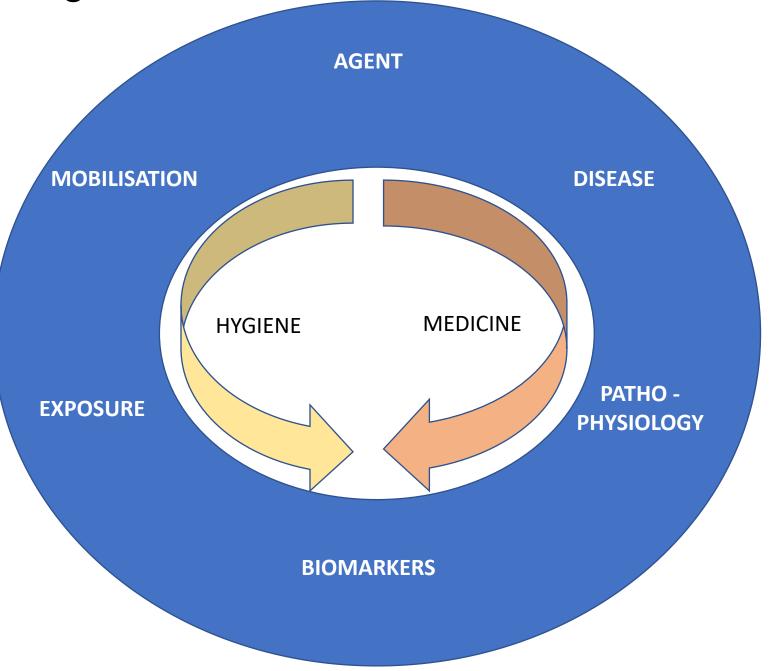
If better to either question = Work-effect

Have you had to take time off work because of this condition?

Do you know of anyone else in your workplace with similar problems?

Had anything changed in your work or workplace before the onset of your symptoms?

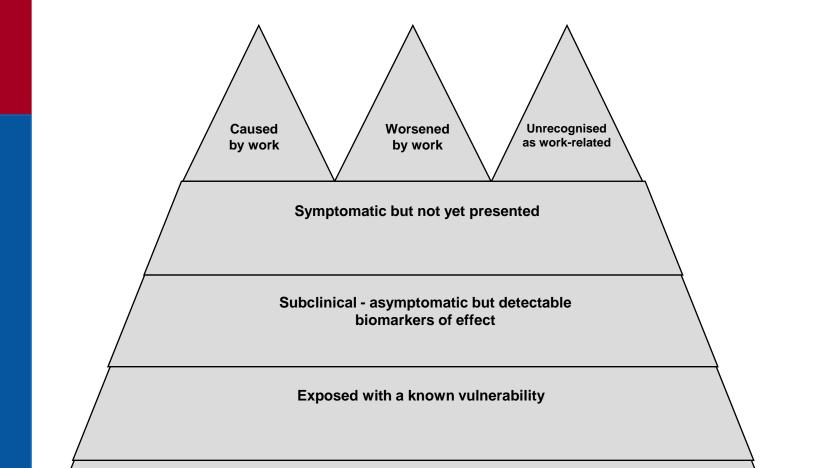
Making the Link between Work and Illness







Occupational disease is like a Swiss mountain



Exposed with no known vulnerability



Recognition and reporting:

"The three peaks of occupational disease"

© Anil Adisesh, 6th edition, Occupational Health – Pocket Consultant, Wiley-Blackwell

Causation





Occupational Exacerbation / Aggravation

For WSIB Ontario

Aggravation: is the temporary effect that a minor work-related injury/disease has on a preaccident impairment requiring health care and/or leading to a loss of earnings.





 "permanent impairment" means impairment that continues to exist after the worker reaches maximum medical recovery; ("déficience permanente")

Clinical Evidence



- A clear exposure that preceded the illness/injury
- A plausible temporal relationship between exposure and outcome
- The exposure is known to cause the outcome in question
- Other causes have been ruled out or deemed less likely

Supportive features:

- Co-workers with similar outcome
- Improvement with cessation of exposure
- Prior symptoms with similar exposures
- No other apparent cause





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)

of	four answers to these questions will help your healthcare provider understand the of your current or previous work on your health/wellbeing and of your health on you your work.	
N	Name:Date of Birth (YYYY/MM/DD):	
1.	What is your current employment status? (Check and then circle most appropriate answer □ Employed by an organization full-time / part-time / on leave (Go to question 3) □ Self-employed full-time / part-time / on leave (Go to question 3) □ Full-time university or college student / Homemaker / Not employed / Long terbenefits/ Retired (Go to Question 2)	
2.	I. If not currently employed, when was your last approximate date worked and how long did that job? Last date worked YYYY/MMM /	d youwork at
	How long were you employed in your last jobYearsMonths (Go to	question 4)
3.	i. How long have you been at your current job?YearsMonths	
4.	 For your current or last job worked, what was your occupation/job title? (Please gittle and be specific. For example: Fruit picker, Legal secretary, Restaurant manage school teacher, Dry waller, Heavy Equipment Mechanic) 	
	title and be specific. For example: Fruit picker, Legal secretary, Restaurant manage	e job? (Pleas
5.	title and be specific. For example: Fruit picker, Legal secretary, Restaurant manage school teacher, Dry waller, Heavy Equipment Mechanic) For your current or last job worked, what are/were your main tasks or duties in the give details, for example: picking and carrying apples and peoches, preparing legal managing the operations of a restaurant and serving customers, teaching mathem	e job? (Pleas
5.	title and be specific. For example: Fruit picker, Legal secretary, Restaurant manage 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 give details, for example: picking and carrying apples and peoches, preparing legal managing the operations of a restaurant and serving customers, teaching mathem and sanding walls, grinding and using impact wrenches) 5. Do / did you work in more than one job at the same time? Yes / No	e job? (Pleas documents, notics, taping main job (or

Applying a Prevention Model to Management



Tertiary prevention:

Treatment/management of the illness/injury.

Assess if there is a risk for ongoing or re-exposure, and if so, define limitations and/or restrictions —could also consider specialist (occupational medicine) referral.

St Michael's Hospital Occupational Medicine Clinic.

WSIB claim

Secondary prevention:

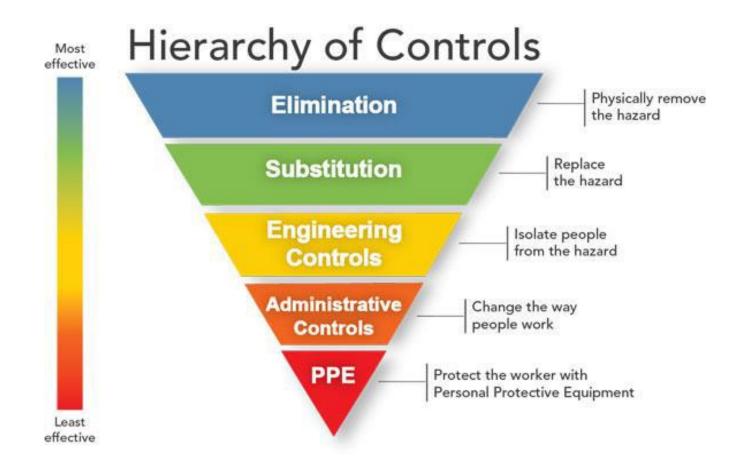
Occupational health surveillance to detect conditions at the earliest time.

Primary prevention:

Reduce or eliminate the hazard.

Primary Prevention









- As soon as medically possible
 - 100% recovery is NOT necessary and waiting may risk longer absence with health consequences
- Advise on Limitations of condition (What they cannot do even if they wanted to)
- Advise on Medical Restrictions
 (What they should not do in your opinion)
- Consider timing
 Graduated return
 Shift work
 Nature of work

Questions to Consider



Question 1: Could the disease/illness, injury or treatment affect ability to work?

- Be mindful of "Safety Sensitive Work" (SSW); work where any brief incapacitation, impairment of cognition etc. could result in loss of life or damage, e.g. commercial driving, pilots, law enforcement, health care, etc.)
- May be legal obligations on you e.g., to report pilots to Regional Canadian Aviation Medical Officer
- The Canadian Medical Association Driver's Guide can be helpful!
- Canadian Medical Protection Association

Question 2: Could work worsen/exacerbate the disease/illness or injury?

- Role of medical restrictions
- Human rights / disability accommodation

Question 3: When can they RTW?

 As soon as medically reasonable, with modified duties and/or hours as needed to support recovery (use evidence-based guidelines)

Question 4: Are there compensation issues?





- Ask about patient's work and what they do
- Consider the effect of their work on their health and of their health on their work
- Remember good work is good for people



Questions/Discussion

Thank you!

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