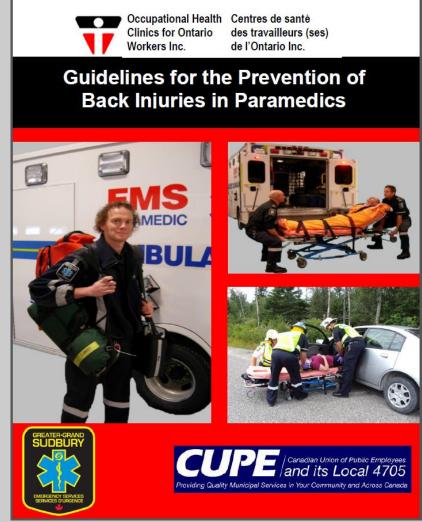
Guidelines for the Prevention of Back Injuries in Paramedics



Occupational Health Clinics for Ontario Workers Inc.

Overview

- Program consists of 3 modules:
 - Module 1: Injury statistics, Anatomy & Physiology, causes of back problems, assessment of risk factors to paramedics.
 - Module 2: Introduction to basic concepts of the program 7 P's for safe lifting, SPINES acronym.
 - Module 3: General safe lifting, situation specific scenarios for lifting & back safety



MODULE 1

- Goals:
 - Understand the importance of back care for Paramedics
 - Understand the basic anatomy of the back and how it works
 - Understand why and how Paramedics are injured
 - Get an introduction to basic concepts of biomechanics and ergonomics
 - Understand the importance of good body mechanics



Injury Statistics

- Back injuries are the leading causes of on-duty injuries among EMS personnel:
 - 30% twisting
 - 11% bending
 - 9% pulling
- Once you've had a back injury, the chance of re-injury is 3 to 5 times greater.



Concerns with Work Tasks

- Patients and equipment are increasing in weight.
 - Paramedics face a greater risk of overexertion and spine injuries.
- Almost 60% of EMS workers complain of back strain after administering CPR.



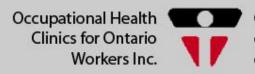
Back Injury Concerns

- Paramedics are susceptible to back injuries due to emergency circumstances, unavoidable awkward lifting, excitement of crisis, lack of continued back training, and the size of ambulance compartments (Terribilini, 1989).
- National Association of Emergency Medical Technicians reports that 47% of Paramedics have significant rates of injury and permanent disability from back injuries while on the job.



Module 1: Understanding Your Back

- Purpose, goals and objectives of the program
- Importance of a back care program for EMS workers
- Situations where back injuries can occur
- General anatomy of the back
- General ergonomics
- Biomechanics of the back



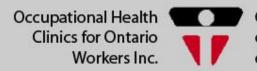
Module 2: Preventing Injuries

- Understand how to assess a scene and plan for action.
- Understand the basic principles of lifting and how to lift to avoid injury.
- Learn the 7 P's to safe lifting and the importance of communication.
- Understand the importance of using and sharing experience to recognize hazards.

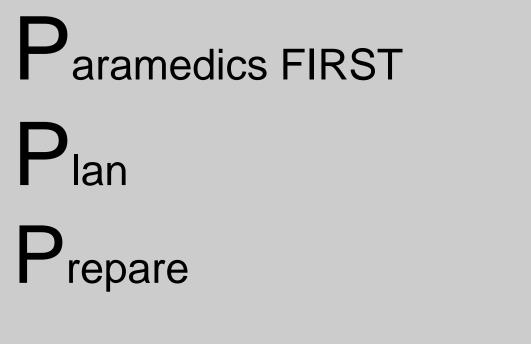


Emergency Response Training

- E Environment
- M Mechanism of Injury
- C Causality
- A Allied Resources
- P Personal Protective Equipment



7 P's to Safer Lifting



Position Posture Protect

Prevent

Occupational Health Clinics for Ontario Workers Inc.



Apply the SPINES Principle

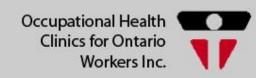
- S ituation
- P repare
 - nteract
- N eutral
- E xecute
- S mooth

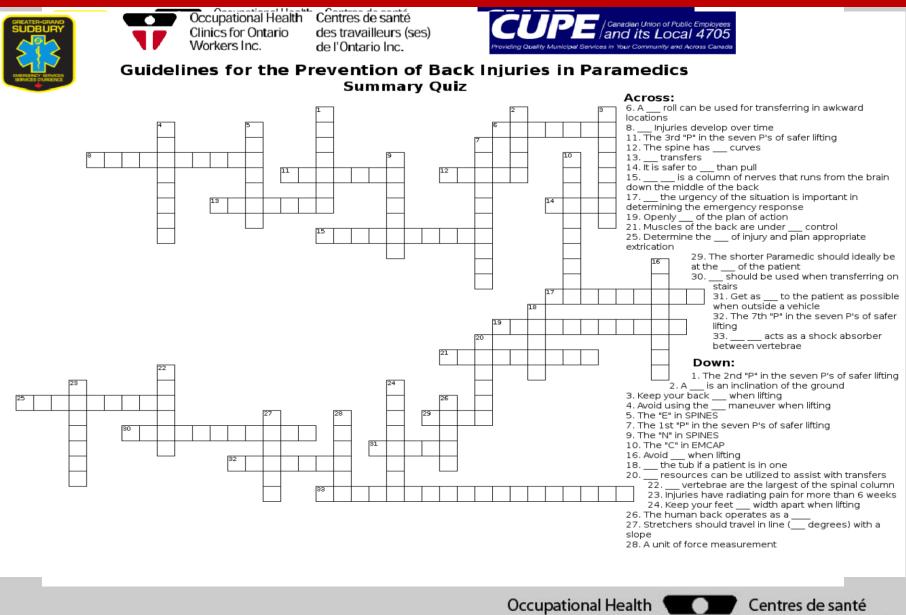
Occupational Health Clinics for Ontario Workers Inc.



Module 3: Challenges to Lifts/Transfers

- Environment
- Patient transport and equipment use
- Paramedic specific emergency situations
- Urgency





Clinics for Ontario Workers Inc.