



Using a clinical database to collect information on workplace prevention

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Research that makes a Difference



Disclosures

- Funding support provided by the Centre for Research Expertise in Occupational Disease, funded by the Ontario Ministry of Labour

Background

- Occupational skin disease
- Patch testing is the key diagnostic procedure
- Patch test databases
 - Patch test responses, diagnosis, exposures
- Surveillance for changes in allergens – emerging, decreasing with intervention

Background

- OEESC 2011 -discussed the possibility of collaborative data gathering
 - 52 respondents
 - Training in general OHS - 56%
 - Training in chemical hazards – 63%
 - Training in general skin prevention – 73%
 - Specific components of training (PPE, skin care, early signs of dermatitis)
 - Skin management program in place – 56%
 - Familiar with safe working distance – 48%



Background

- St Michael's Hospital Occupational Health Clinic
- Starting a new patch test database
- Included questions related to prevention

Background

- **INFORMATION ABOUT WORKPLACE AND WORK**

- **If you are usually working**

- Job title: _____

- Type of workplace: (e.g. hospital, office, factory, school)

- Number of workers (at site where you work) <20 20-50 51-100 >100

- Do you belong to a union?

- **PREVENTION PRACTICES AT WORK**

- If you are or have been working please answer the following questions:

- Does your employer provide health and safety training including rights and responsibilities of workers/supervisors, role of the Joint Health & Safety Committee (JHSC)?

- Does your employer provide WHMIS training at work?

- Have you received training related to skin hazards and skin protection?

- Is there a Joint Health & Safety Committee at your workplace?

- Do you wear gloves at work?

- Do you normally use a skin moisturizer?

- How many times a day do you wash your hands? 0-5 5-10 10-20 >20



Objectives

- To analyse the first three years of data related to prevention practices



Methods

- Patch test database approved by REB – St Michael's Hospital
- Signed consent for data to be included
- All patients being patch tested are eligible
- If not working – no workplace information is collected

Results

- 2012-2014: 1266 consented of 1548 seen
- Age – 47.7
- 36% male
- 38% work-related diagnosis

Results

- Sectors
 - Services – 28%
 - Manufacturing (including auto) – 16%
 - Healthcare – 12%
 - Government – 7%
 - Education – 5%
 - Construction – 3%

Results: Work-related

- Age – 47.7
- 36% male
- Diagnosis: 77% ICD, 50% ACD

Results: healthcare

Type of provider	Overall	Non-WR	WR
Family physician	89%	88%	89%
Walk-in clinic	18%	15%	22%
Emergency	16%	13%	21%
Company	8%	2%	18%
Dermatologist	86%	83%	90%
Allergist	34%	40%	24%

Results: Work-related

- Sectors
 - Manufacturing (including auto) – 35%
 - Services – 24%
 - Healthcare – 18%
 - Construction – 13%
- Size of workplace
 - <20 – 25%
 - 20-100 – 23%
 - >100 – 53%
- Unionized – 47%

Results: training

Type of training	Overall	Non-work-related	Work-related
General OHS	68%	60%	76%
WHMIS	63%	53%	75%
Skin specific	41%	30%	53%

Results: training by sector

Sector	OHS training	WHMIS training	Skin training
Services	63%	42%	26%
Health	82%	83%	62%
Manufacturing	86%	81%	53%
Government	77%	59%	27%
Automotive	92%	94%	60%
Education	81%	74%	45%

Results: training by size

Size of workplace	OHS training	WHMIS training	Skin training
<20	46%	45%	25%
20-50	70%	63%	35%
51-100	83%	76%	39%
>100	91%	90%	62%

Results: training by union

Union status	OHS training	WHMIS training	Skin training
Unionized	95%	95%	63%
Non-unionized	59%	55%	31%

Results: file claim by sector

Sector	WR and file claim
Services	19%
Health	55%
Manufacturing	56%
Government	63%
Automotive	92%
Education	60%

Results: file claim by size

Size	WR and file claim
<20	43%
20-50	36%
51-100	70%
>100	67%

Results: file claim by union

Sector	WR and file claim
Unionized	64%
Non-unionized	50%

Results: manuf-size by training

Size	OHS training	WHMIS training	Skin training
<20	70%	60%	30%
20-50	100%	100%	33%
51-100	100%	100%	33%
>100	100%	100%	65%

Results: health-size by training

Size	OHS training	WHMIS training	Skin training
<20	75%	75%	50%
20-50	75%	50%	25%
51-100	100%	100%	100%
>100	97%	100%	68%



Conclusions

- Patch test database provides an opportunity to collect additional information that may have value to the health and safety system and health care system



Next steps

- Will add 2015, 2016 for next analysis
- 5 year cycle ends 2016
 - Review of questions
 - Trends over time