

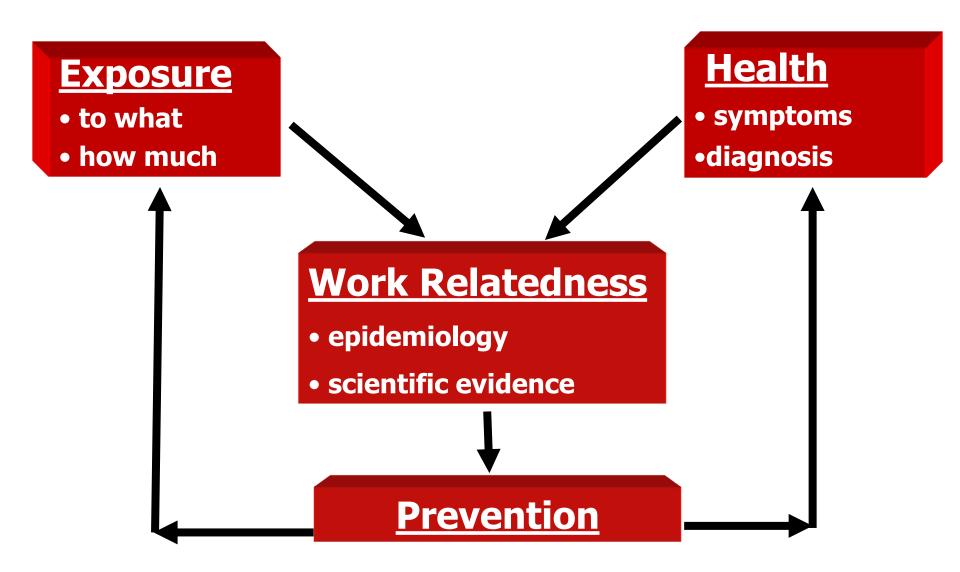
EU-OSHA e-tools webinar September 28th, 2021

PainPoint App – Prevent Musculoskeletal Disorders (MSD) at Work

Daryl Stephenson, PhD Ergonomist, AE Occupational Health Clinics for Ontario Workers Ontario, Canada



What OHCOW Does



PainPoint App Creation

Released in October of 2015

Collaboration between Occupational Health Clinics for Ontario Workers (OHCOW) and the Canadian Centre for Occupational Health and Safety (CCOHS).





Occupational Health Clinics for Ontario Workers Inc.

Centres de santé des travailleurs (ses) de l'Ontario Inc.

Initial Goals for PainPoint App

- For individuals to use
- Desire to raise awareness about work-related pain and take action to prevent it
- Recommend steps a user can take to reduce their workplace exposures



PainPoint App Use

- Delivers very basic ergonomic assessment
- Results depicted on a body map
- Gives recommendations to address workrelated MSD hazards
- Summary of results can be shared

A good first step for recognition, action and prevention



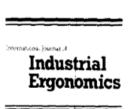
Basis of App - MSD Survey

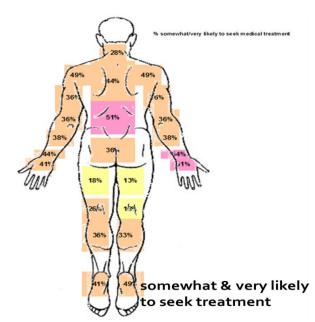
MSD survey

- 2 parts:
 - body map to identify where aches/pains are & likelihood of seeking medical attention
 - exposure questions leading to suggestions on how to reduce exposures



International Journal of Industrial Ergonomics 17 (1996) 21-27



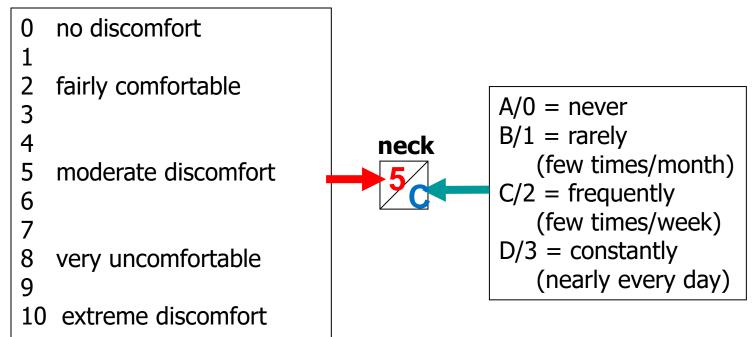


An improved musculoskeletal discomfort assessment tool

Robert J. Marley *, Nirmal Kumar



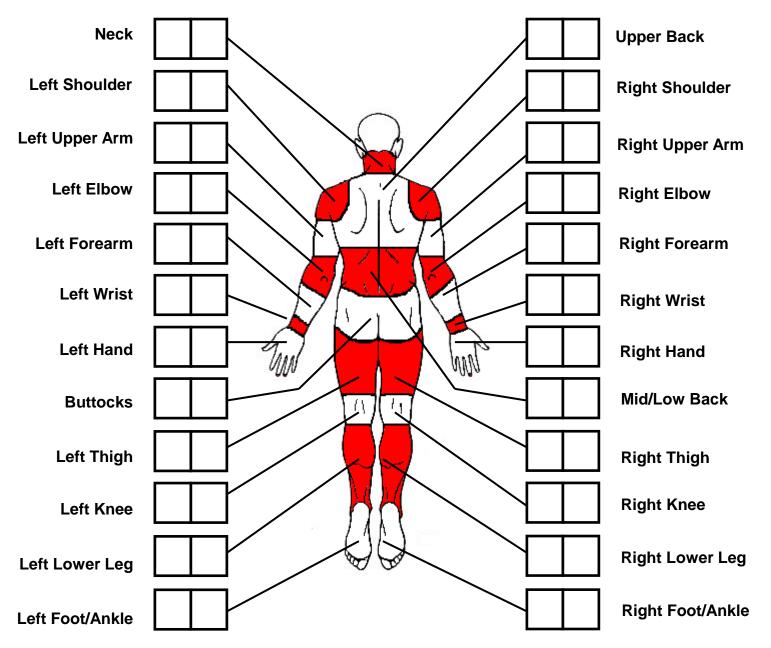
Discomfort Scales



severity

frequency/ probability





legend

1 not likely to seek

2 somewhat likely to seek treatment

seek treatment

freq	В	С	D					
Discmfrt	= rarely	frequently:	=constantly					
1	1	4	1					
2	1		1					
3	1		2					
	1		2					
5		2	3					
6	2	3	3					
7	2	3	3					
8	2	3	3					
9	3	3	3					
10	3	3	3					

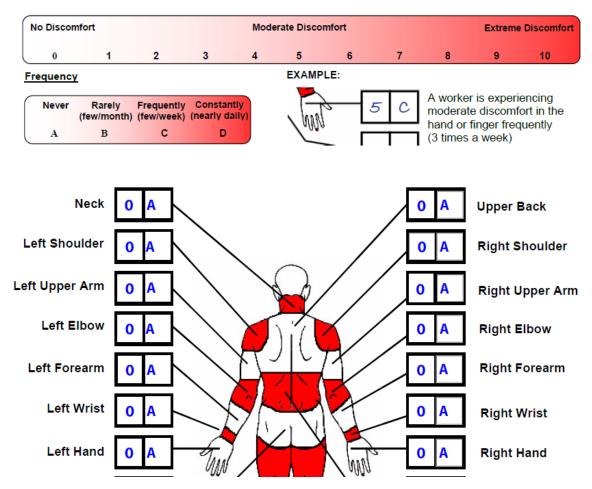
USE IN WORKPLACES



Offices

Discomfort

Based on the scales below, please indicate the amount of discomfort you have felt at work in the last month and how often you experience it for each body region. An example is provided below.



Exposure Questions

- We also asks questions related to physical exposures in the workplace
- This has varied based on the type of work environment

Offices

Please answer the following questions based on your overall experience in the last week.

15. Where is your computer screen in relation to your eyes (choose one)? Looking level Looking down Looking up 16. Where is your computer screen located (choose one)? Directly in front Off to a side 17. How do you position your wrist most often when you are mousing?





Bent inwards



Bent Outwards

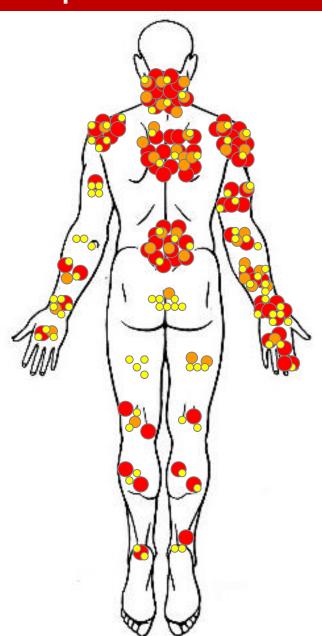


Bent Upwards

Industrial

 Overall, how would you rate the <u>comfort of your workstation</u> (circle one)? 												
Comfortable ₁	Neutral ₂	A Bit Uncomfortable ₃	Annoying ₄	Very Uncomfortable₅								
	2. Do you hav	e to <u>bend your back</u> in orde	to do your work	(circle one)?								
Never ₀	Rarely ₁	Once in a While ₂	Regularly ₃	All the Time ₄								
 Do you have to <u>stand in one place</u> for an extended period of time (circle one)? 												
Never ₀	Rarely ₁	Once in a While2	Regularly ₃	All the Time4								
	4. Do you have	e to <u>stretch to reach</u> in orde	r to do your work	(circle one)?								
Never ₀	Rarely ₁	Once in a While ₂	Regularly ₃	All the Time4								
	5. Do you have	e to <u>twist your body</u> in orde	r to do your work	(circle one)?								
Never ₀	Rarely ₁	Once in a While ₂	Regularly ₃	All the Time ₄								
	6a. Do you ne	ed to <u>lift things</u> in order to d	lo your work (circl	le one)?								
Never ₀	Rarely ₁	Once in a While ₂	Regularly ₃	All the Time ₄								
	6b. How	would you <u>rate the effort o</u> j	f <u>lifting</u> (circle one	?)?								
Never ₀	Rarely ₁	Once in a While ₂	Regularly ₃	All the Time ₄								
	7a. Do you nee	d to <u>push or pull</u> in order to	do your work (circ	cle one)?								
Never ₀	Rarely ₁	Once in a While ₂	Regularly ₃	All the Time ₄								
	7b. How would	you <u>rate the effort of push</u> i	i <mark>ng or pulling</mark> (circ	cle one)?								
Never ₀	Rarely ₁	Once in a While ₂	Regularly ₃	All the Time ₄								
	8a. Do you have	to <u>grip anything</u> in order to	do your work (ci	rcle one)?								



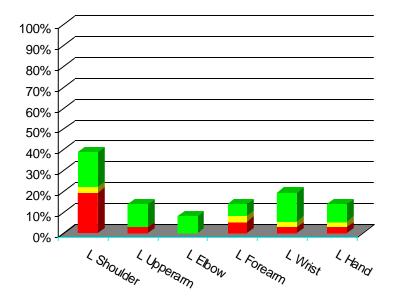


1	Not likely to seek treatment
2	Somewhat likely to seek treatment
3	Very likely to seek treatment



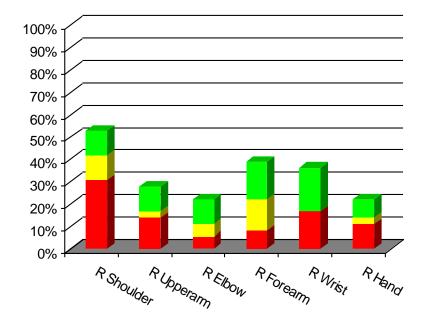
Department X Left Side

1	Not likely to seek treatment
2	Somewhat likely to seek treatment
3	Very likely to seek treatment



Department X Right Side

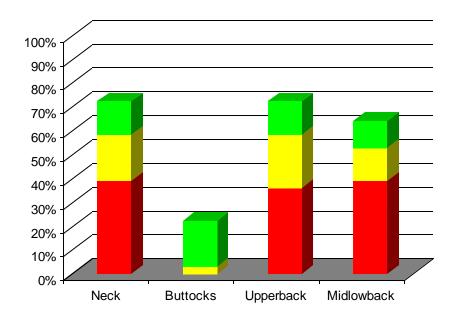
1	Not likely to seek treatment
2	Somewhat likely to seek treatment
3	Very likely to seek treatment





Department X Neck and Back

1	Not likely to seek treatment
2	Somewhat likely to seek treatment
3	Very likely to seek treatment



OHCOW SURVEY TOOL

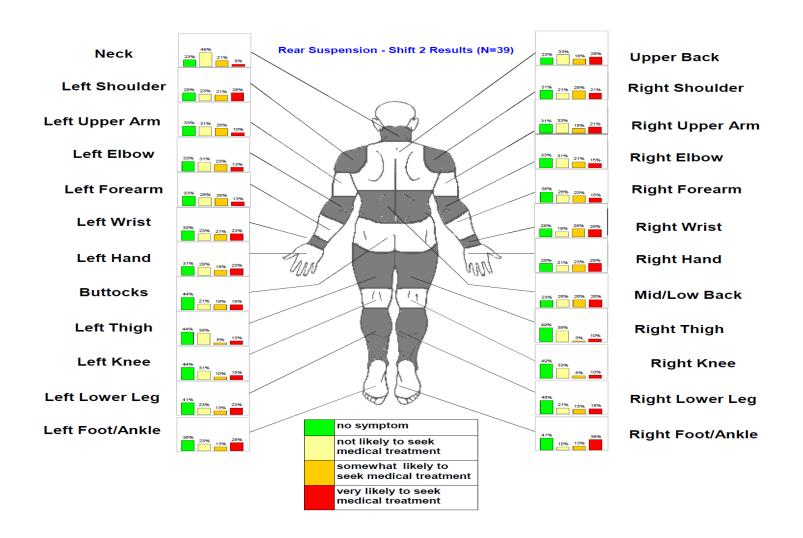


Spreadsheet Entry

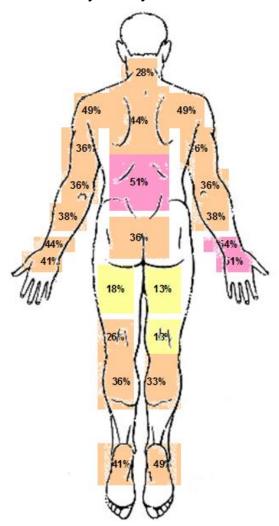
	F17 ▼ (* f _x																			
	A B C D	E	F	G	Н	I	J	K	L	М	N O		P Q R		S T U		U	V	U X	
1	enter group name here (type over)	1																		
2	department:																			
3	line:																			
	job:																			
	age category:																			
6	sex:																			
7	right or left handed:																			
8																				
9	NECK																			
10	LEFT SHOULDER																			
11	LEFT UPPER ARM																			
12	LEFT ELBOW																			
13	LEFT FOREARM																			
14	LEFT WRIST																			
15	LEFT HAND																			
16	виттоскѕ																			

Spreadsheet Entry

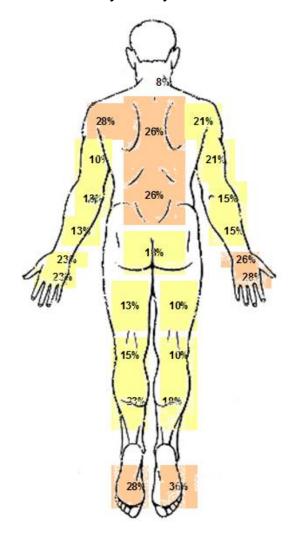
		KIGHT THIGH			ı			I								
30		RIGHT KNEE														
31	A 1	RIGHT LOWER LEG														
32		RIGHT ANKLE OR FOOT														
33																
34	q1: workstation comfort rating															
35	q2: bending															
36	q3: standing in one place															
37	q4: stretching to reach															
38	q5: twisting															
39	q6a: lifting frequency															
40	q6b: lifting effort															
41	q7a: push/pull frequency															
42	q7b: push/pull effort															
43	q8a: gripping frequency															
44	q8b: gripping effort															
45	q9: shoulder work															
46	q10: number of repititions															
47 48	q11: vibration exposure Suggestions:(keep typing even	if you go beyond space														
-10					_			-								-



% Somewhat or Very Likely to seek medical treatment

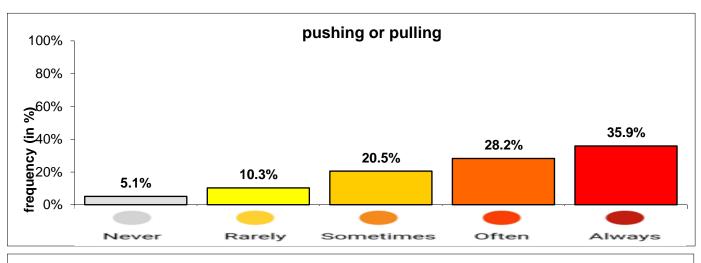


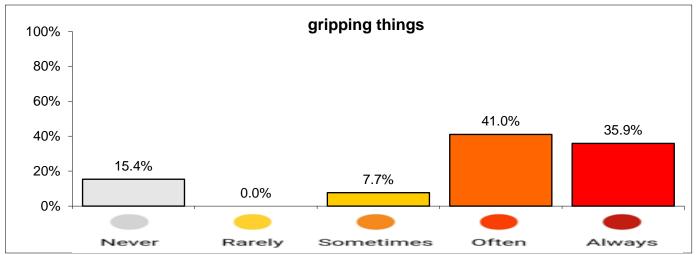
% Very Likely to seek medical treatment



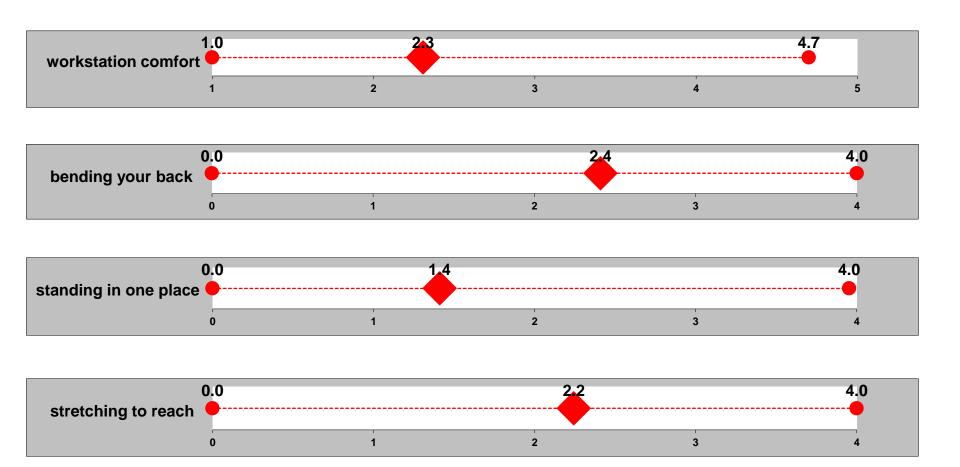












DESIGN OF THE APP



User Testing



OHCOW and CCOHS Websites



Centres de santé des travailleurs (ses) de l'Ontario Inc.

Sear

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Occupational Health +

Hazards and Exposures +

Resources -

Home > Resources > Occupational Health Toolkits and Apps > Painpoint

PainPoint - Prevent Musculoskeletal Disorders at Work







Download this useful app that delivers a very basic ergonomic assessment by running through a series of diagrams and questions to pinpoint musculoskeletal pain, identify possible sources, and discover practical solutions - right from your smartphone! The results are depicted on a body map, with recommendations to address workrelated MSD hazards that could be contributing to your discomfort. No personal data is collected, but summary results can be shared with others (at your discretion) in order to report hazards or foster solutions.

While a professional ergonomic assessment is considered the most effective way to address work-related discomfort, this app is a good first step to help you recognize the signs of MSDs and take action for



This app is the result of a valuable and productive professional collaboration: combining the clinical expe ergonomic content of the Occupational Health Clinic for Ontario Workers (OHCOW) with the technological communication skills of the Canadian Centre for Occupational Health and Safety (CCOHS).



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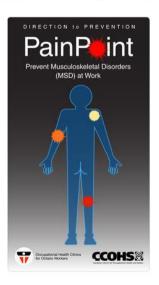
> PainPoint - Prevent Musculoskeletal Disorders (MSDs) at Work*

This smartphone application (app) delivers a basic ergonomic assessment by stepping the user through a series of diagrams and questions to pinpoint musculoskeletal pain, identify possible sources, and discover practical solutions. The results are presented on a body map, with recommendations to address work-related MSD hazards that could be contributing to their discomfort.





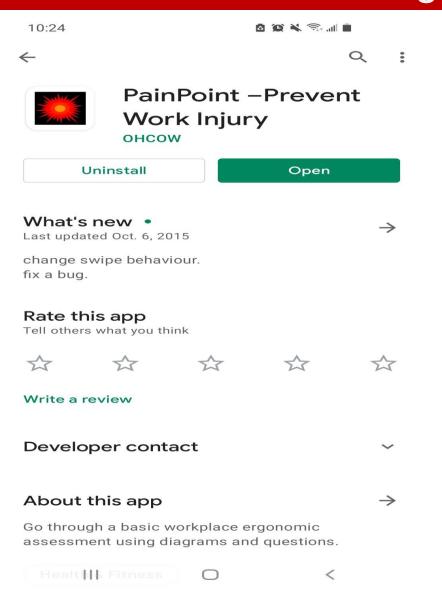


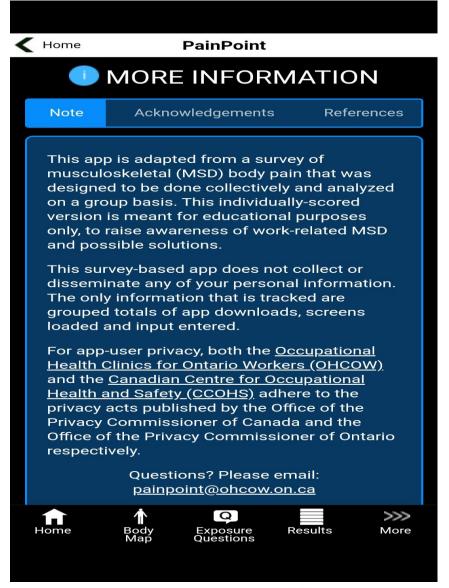


Product Description



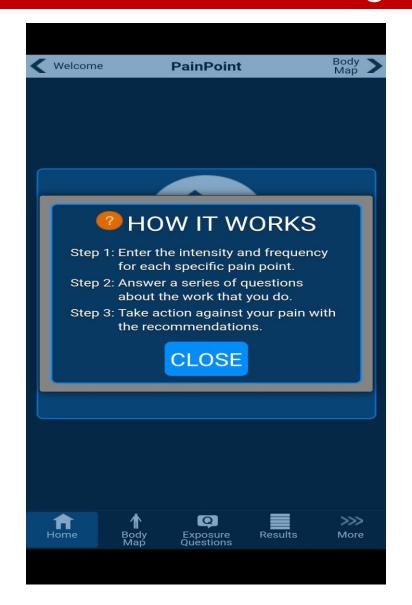
Installing on Phones

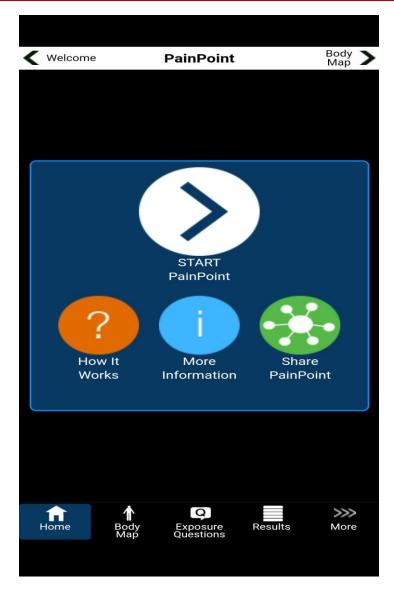






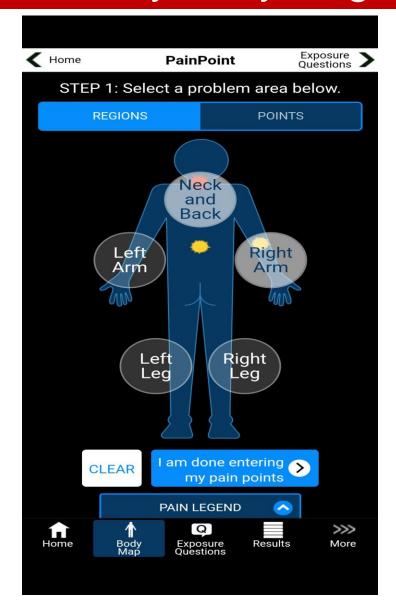
Using PainPoint

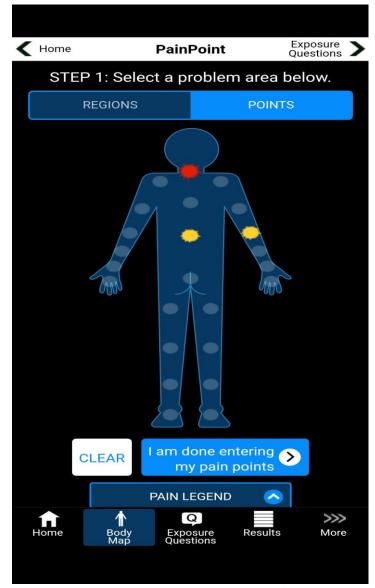






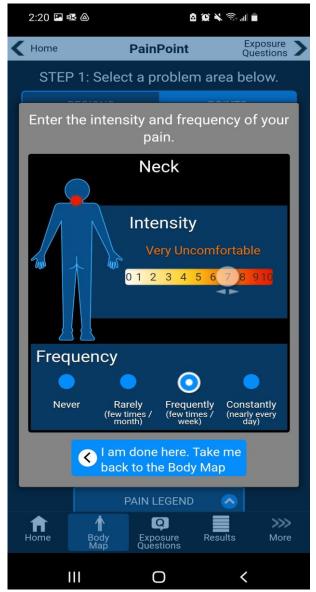
Choose by Body Region or Point on Body Map

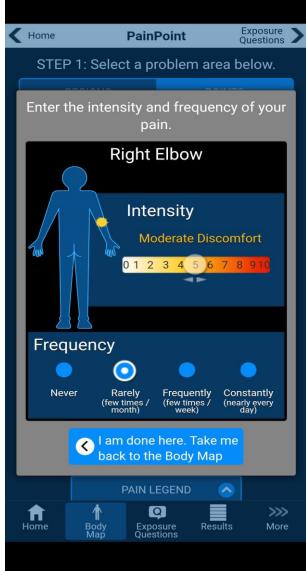


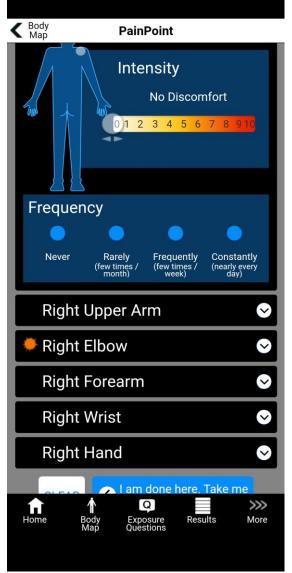




Choose Pain Intensity and Frequency

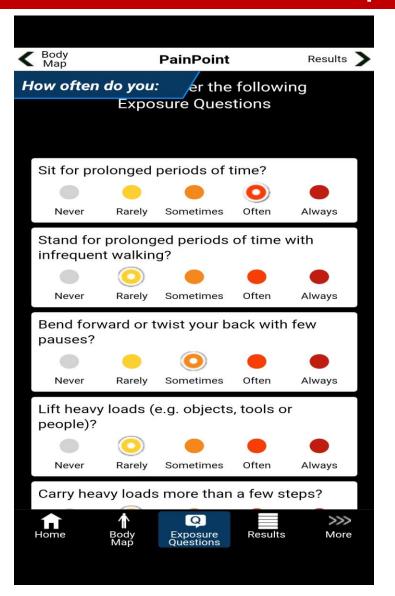


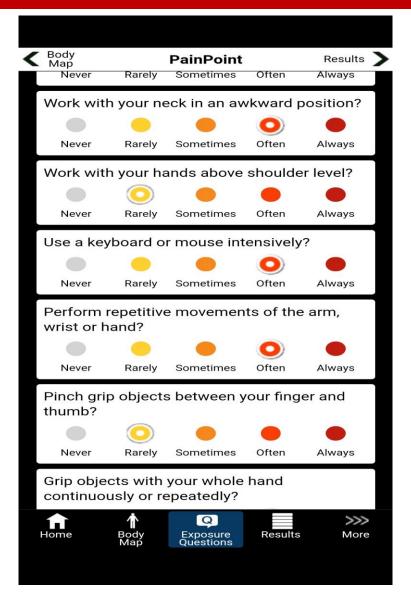




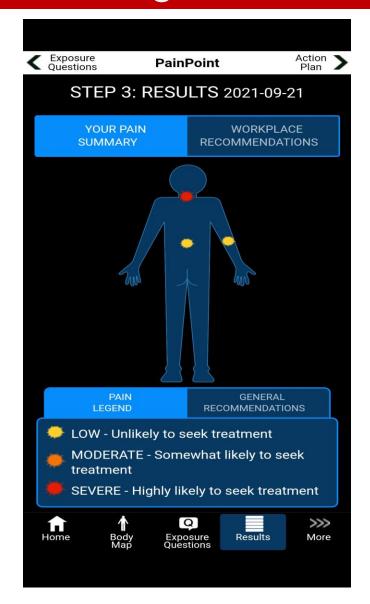


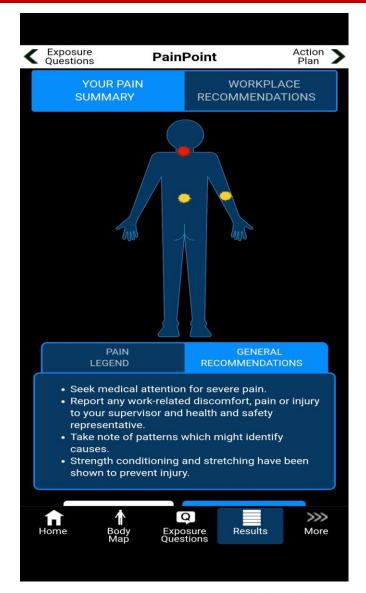
Answer Exposure Questions





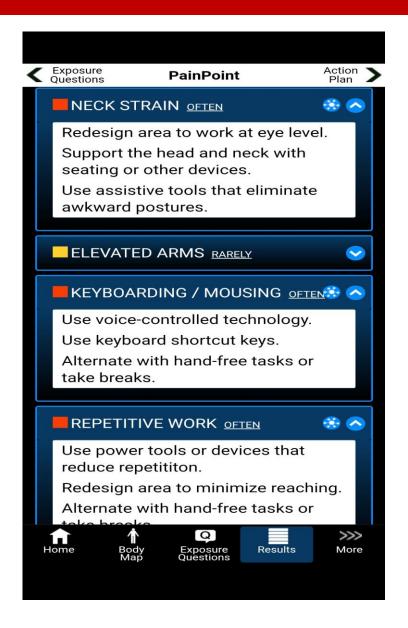
Legend and Recommendations

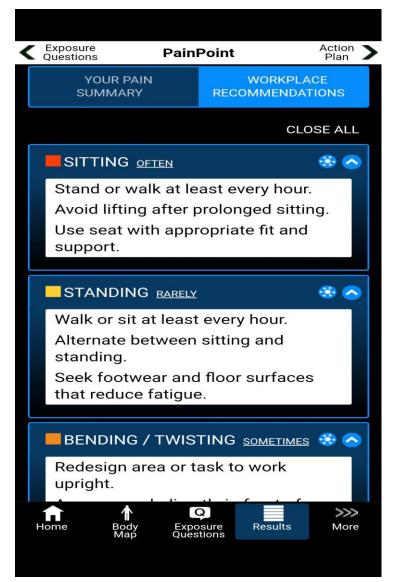




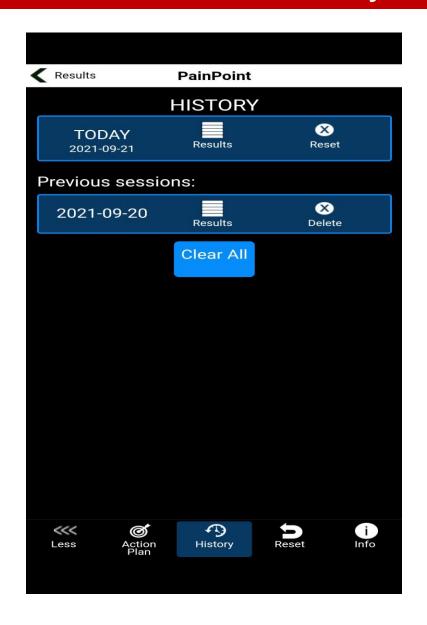


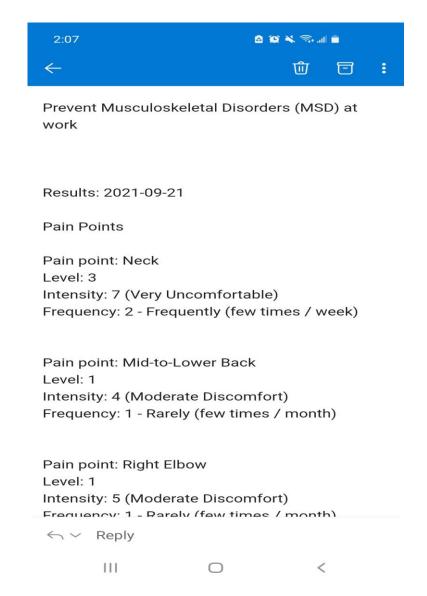
Pain and Hazard Solutions





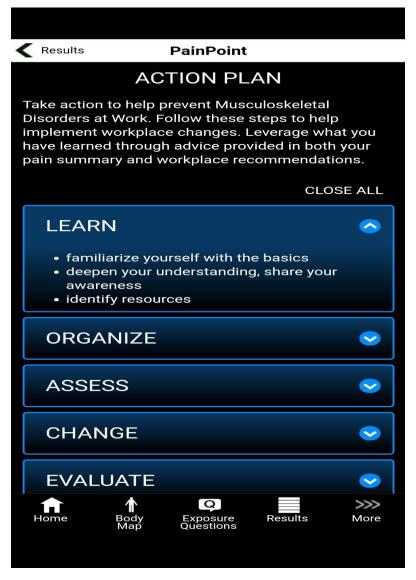
Save History and Share Results

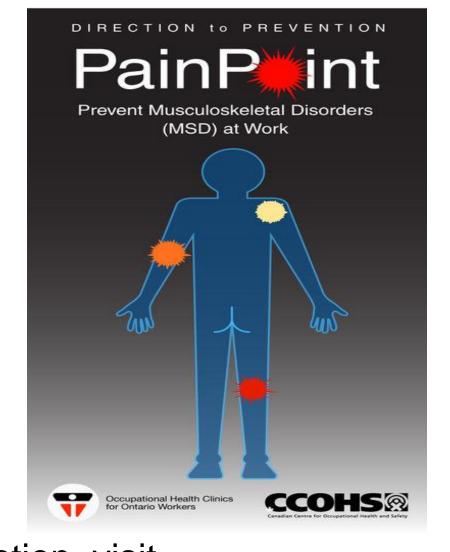






Create an Action Plan





For more information, visit http://www.ohcow.on.ca/painpoint.html or contact us at painpoint@ohcow.on.ca.

