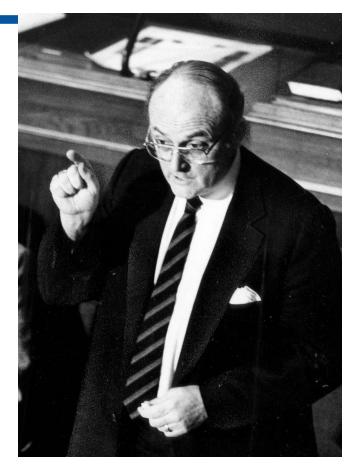


A look back... Protecting the health of workers: IWH research and policy and practice in Ontario

Cameron Mustard 2022 Alf Nachemson Memorial Lecture



Founding IWH: The Backstory



Robert (Bob) Elgie 1929-2013 Minister of Labour: 1978-1981 Chair, Ontario Workers' Compensation Board: 1985-1991

"He was smart, courteous, with a great sense of humour and great warmth. No one reflected the traditions of progressive conservatism more than Bob Elgie. I loved the guy." *Bob Rae, former NDP Premier of Ontario*

"One of the most brilliant and compassionate MPPs Queen's Park has ever known." *Steve Paikin, The Agenda, TVO*



Five themes, 2000-2020

Work-related harms to health Employers' investments in OHS Organized labour and the tripartite governance of OHS OHS regulatory standards and enforcement Reform and innovation at the WSIB





they just become totally confounded



they just become totally confounded they just lose power



they just become totally confounded they just lose power they just reach their confidence limits



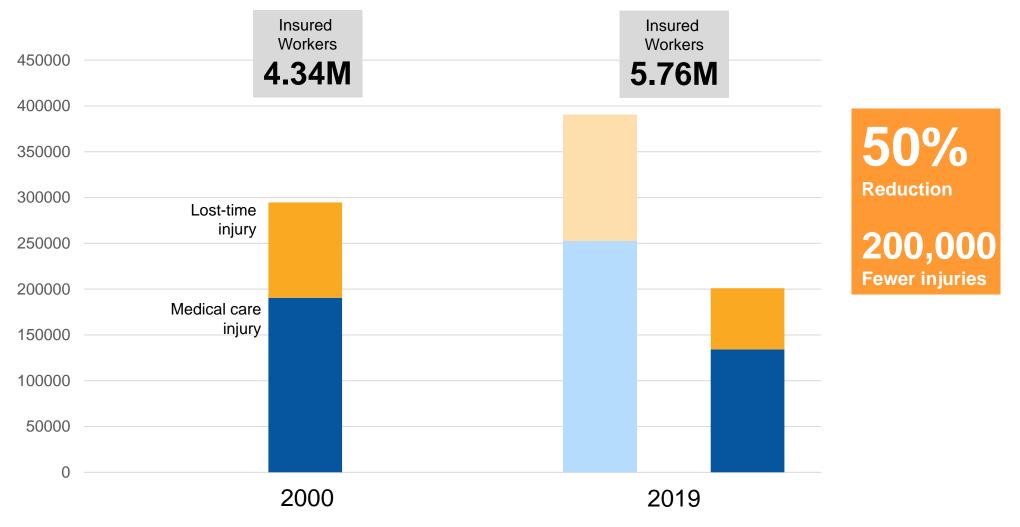
they just become totally confounded they just lose power they just reach their confidence limits they just don't count anymore



A substantial reduction in work-related harms to health over the past 20 years

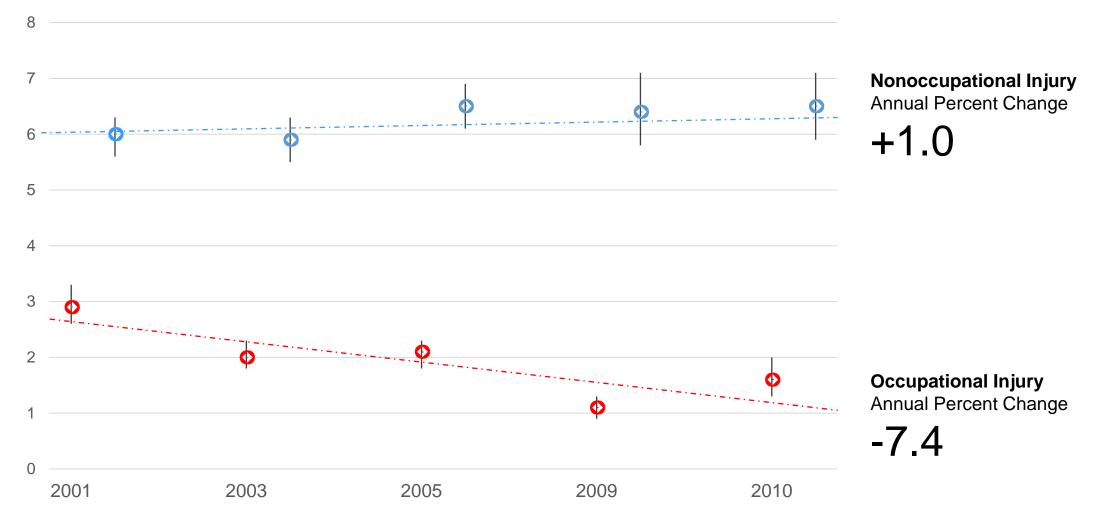


Compensation claim frequency, 2000 vs 2019 Ontario





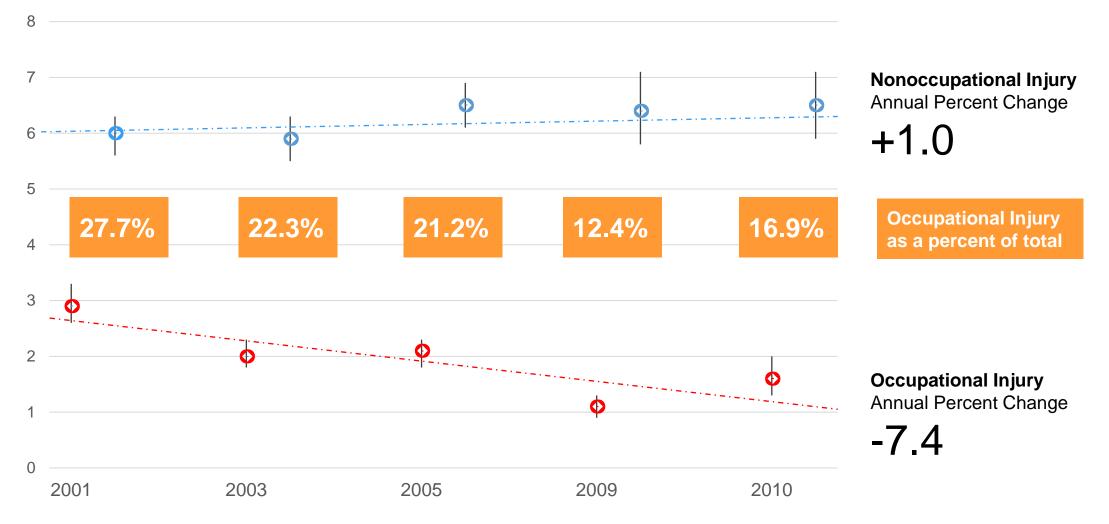
Annual percent change in self-reported incidence of medically-attended injuries among adults aged 15-64, by Occupational and Nonoccupational cause, Ontario 2001-2010, Canadian Community Health Survey Rate per 100 person-years





Chambers A, Ibrahim S, Etches J, Mustard C. Diverging trends in the incidence of occupational and nonoccupational injury in Ontario, 2004-2011. Am J Public Health. 2015 Feb;105(2):338-43. doi: 10.2105/AJPH.2014.302223.

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Annual Percent Change in Occupational and Nonoccupational Injury among adults aged 15-64 years, by external cause, Ontario 2004-2011

Cause of Injury	Nonoccupational Injury Annual Percent Change (95% CI)			Occupational Injury Annual Percent Change (95% CI)	
Motor vehicle occupant	-3.56	-4.16,	-2.95	-4.39	-5.36, -3.41
Fall Inanimate mechanical force Overexertion	0.82 -0.78 -1.28	0.06, -1.11, -1.65,	1.60 -0.45 -0.91	-3.48 -7.01 -5.96	-4.98, -1.95 -8.53, -5.47 -7.38, -4.51
Total, all external causes	-0.25	-0.44,	-0.04	-5.95	-7.30, -4.57

Data are from emergency department records from the National Ambulatory Reporting System **Bold** APC values represent statistically significant changes.



Chambers A, Ibrahim S, Etches J, Mustard C. Diverging trends in the incidence of occupational and nonoccupational injury in Ontario, 2004-2011. Am J Public Health. 2015 Feb;105(2):338-43. doi: 10.2105/AJPH.2014.302223.

Employer OHS expenditures are substantial



Employer expenditure on health and safety per worker per year for 17 sectors. Optario 2017

Total	334	\$1,302.80
Service Sectors	237	\$846.51
Arts, Entertainment, and Recreation	7	\$583.73
Educational Services	12	\$630.92
Retail Trade	47	\$636.32
Wholesale Trade	18	\$719.88
Accommodation and Food Services	19	\$732.70
Finance and Insurance, Real Estate	17	\$819.28
Professional, Scientific, and Technical Services	24	\$858.43
Management /Administration of Enterprises	12	\$902.62
Other Services (except Public Administration)	7	\$935.59
Public Administration	20	\$996.36
Health Care and Social Assistance	37	\$1,021.47
Transportation and Warehousing	17	\$1,326.29
Goods Producing Sectors	97	\$2,417.67
Agriculture, Forestry, Fishing and Hunting	5	\$890.03
Manufacturing	50	\$1,515.47
Utilities	7	\$3,335.41
Construction	30	\$3,625.93
Mining, Quarrying, and Oil and Gas Extraction	5	\$4,432.90
Imployers with 20 of more employees		worker per yea
Employers with 20 or more employees		expenditure pe



OHS expenditures in the Ontario manufacturing sector: **\$1,500** per worker per year





Organized labour is a powerful driver of positive change

Tripartite governance of OHS in Canada is a strength

Expert Advisory Committee on Occupational Health and Safety (the Dean Report), December 2010

Mining Health, Safety and Prevention Review, 2013-2015 Workplace Violence Prevention in Health Care Leadership Table <u>MOHLTC/MOL, 2015-2017</u>



Preventing Workplace Violence: Bill 168

Bill 168 became law on June 15, 2010, an amendment to the Occupational Health and Safety Act. The changes strengthen protections for workers from workplace violence and workplace harassment. Bill 168 requires employers to have policies and programs in place to deal with workplace violence, workplace harassment and domestic violence that may occur in the workplace.

"Workplace violence" means:

- the exercise of physical force by a person against a worker, in a workplace, that causes or could cause physical injury to the worker;
- an attempt to exercise physical force against a worker, in a workplace, that could cause physical injury to the worker;
- a statement or behaviour that it is reasonable for a worker to interpret as a threat to exercise physical force against the worker, in a workplace, that could cause physical injury to the worker.



Preventing Workplace Violence: Bill 168

OHS regulatory standards and enforcement are effective



Randomized Government Safety Inspections Reduce Worker Injuries with No Detectable Job Loss

David I. Levine,¹ Michael W. Toffel,^{2*} Matthew S. Johnson³

Controversy surrounds occupational health and safety regulators, with some observers claiming that workplace regulations damage firms' competitiveness and destroy jobs and others arguing that they make workplaces safer at little cost to employers and employees. We analyzed a natural field experiment to examine how workplace safety inspections affected injury rates and other outcomes. We compared 409 randomly inspected establishments in California with 409 matched-control establishments that were eligible, but not chosen, for inspection. Compared with controls, randomly inspected employers experienced a 9.4% decline in injury rates (95% confidence interval = -0.177 to -0.021) and a 26% reduction in injury cost (95% confidence interval = -0.513 to -0.083). We find no evidence that these improvements came at the expense of employment, sales, credit ratings, or firm survival.

Levine DI, Toffel MW, Johnson MS. Randomized government safety inspections reduce worker injuries with no detectable job loss. **Science**.

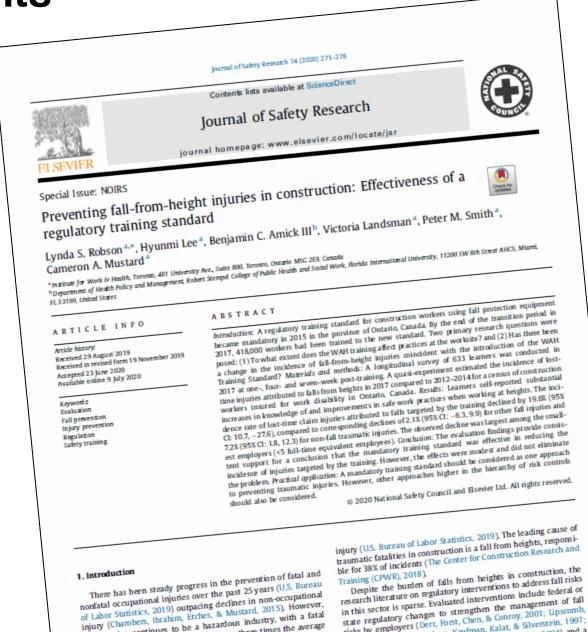
2012 May 18;336(6083):907-11. doi: 10.1126/science.1215191



Preventing falls-from-heights

A regulatory training standard for construction workers using fall protection equipment became mandatory in 2015 in the province of Ontario, Canada. By the end of the transition period in 2017, 418,000 workers had been trained to the new standard.

Learners self-reported substantial increases in knowledge of and improvements in safe work practices when working at heights. The incidence rate of lost-time claim injuries attributed to falls targeted by the training declined by 19.6% (95% CI: 10.7, -27.6), compared to corresponding declines of 2.1% (95% CI: -6.3, 9.9) for other fall injuries and 7.2% (95% CI: 1.8, 12.3) for non-fall traumatic injuries. The observed decline was largest among the smallest employers (<5 full-time equivalent employees).



antiques to be a hazardous industry, with a fatal



OSHA says IWH review confirms effectiveness of OHS enforcement

December 2015

Sometimes, research evidence is used by policy-makers to shape new policy. And other times, research is used to confirm a policy direction. This second purpose,—the "supportive" use of research—is evident in **the recent decision of the U.S. Occupational Safety and Health Administration (OSHA) to strengthen its enforcement practices**. OSHA pointed to the findings of a systematic review by the Institute for Work & Health (IWH) to support its focus on inspections and penalties.

In the November 2, 2015 edition of OSHA's bi-monthly e-newsletter, OSHA QuickTakes, OSHA Assistant Secretary Dr. David Michaels referred to a systematic review led by IWH Senior Scientist Dr. Emile Tompa on the effectiveness of enforcement interventions. The review found strong evidence that regulatory health and safety inspections that result in a citation or penalty are effective in reducing work-related injuries, and that general deterrence—the mere chance that employers may get inspected one day—is not as effective.



Innovation and reform at the Workplace Safety & Insurance Board

New Service Delivery Model 2008-2009

WSIB Funding Review 2010-2012 **Funding Fairness:** A report on Ontario's workplace safety and insurance system. H Arthurs

Rate framework reform: detailed design work 2015-2016 Elimination of the unfunded liability, 2018



Innovation and reform at the Workplace Safety & Insurance Board New Service Delivery Model (2008-2009)

For a decade, from 1999 to 2009, the proportion of disability episodes of long duration compensated by the WSIB steadily increased.

In 2008-2009, the WSIB introduced a new case management focus for the delivery of services to injured workers and their employers, with an emphasis on improving RTW outcomes, incorporating procedures based on the best evidence available. The model adopted a **case management framework**, created a new role, **RTW specialist**, when an injured worker and workplace are having difficulty developing an RTW plan, and emphasized processes to enable **timely first decisions**.

"We certainly relied on the Institute's research," Judy Geary, Vice President, Program Development, "Indeed, researchers from the IWH met regularly with WSIB staff during the design and development of the model to offer advice about the appropriate use of research evidence."



From tipping point to turning point How the WSIB eliminated the unfunded liability

https://www.wsib.ca/sites/default/files/2019-03/tippingpointtoturningpoint.pdf



People are returning to work with no wage loss | Percentage of people returning to work at 100% pre-injury earnings at 12 months



People are getting their claims approved faster | Decisions made within two weeks



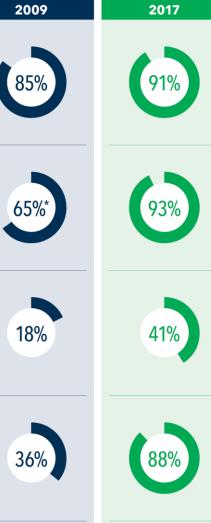
We're getting people injured at work to more specialized and timely medical care | Percentage of people injured at work in integrated health care programs



We're getting more people back into the workforce | Percentage of people employed after completing a Work Transition plan



We're providing more hands-on return to work services | Number of visits by WSIB return to work staff

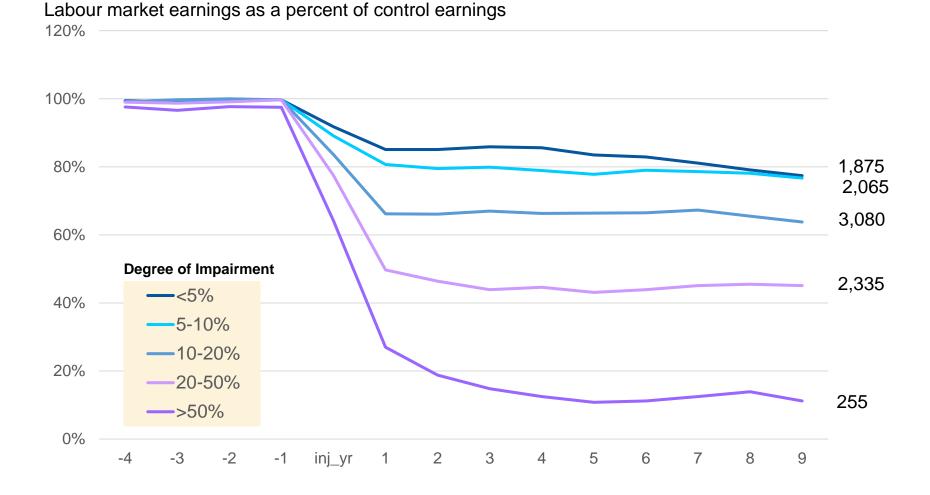


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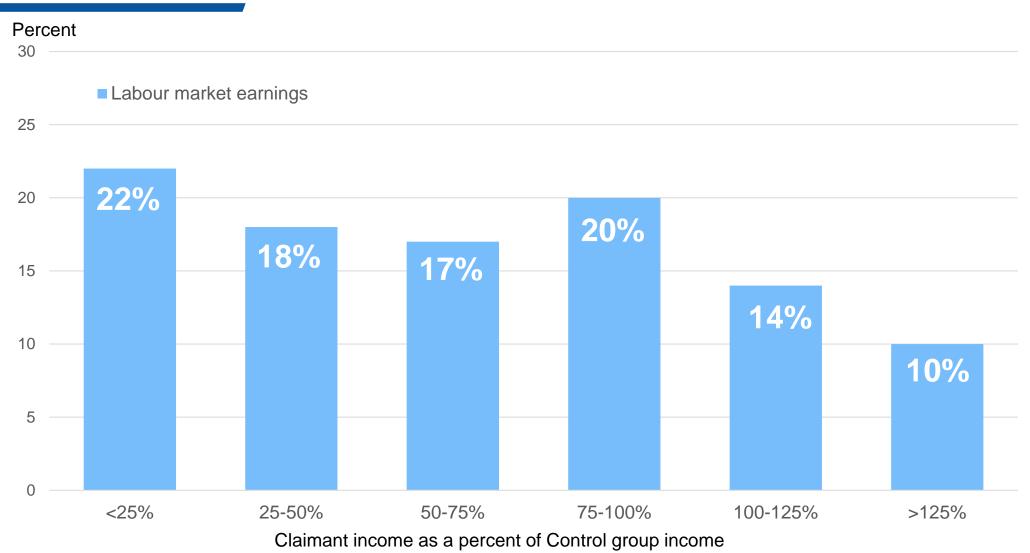


Labour market earnings: Workers with Permanent Impairments, Ontario 1998-2002



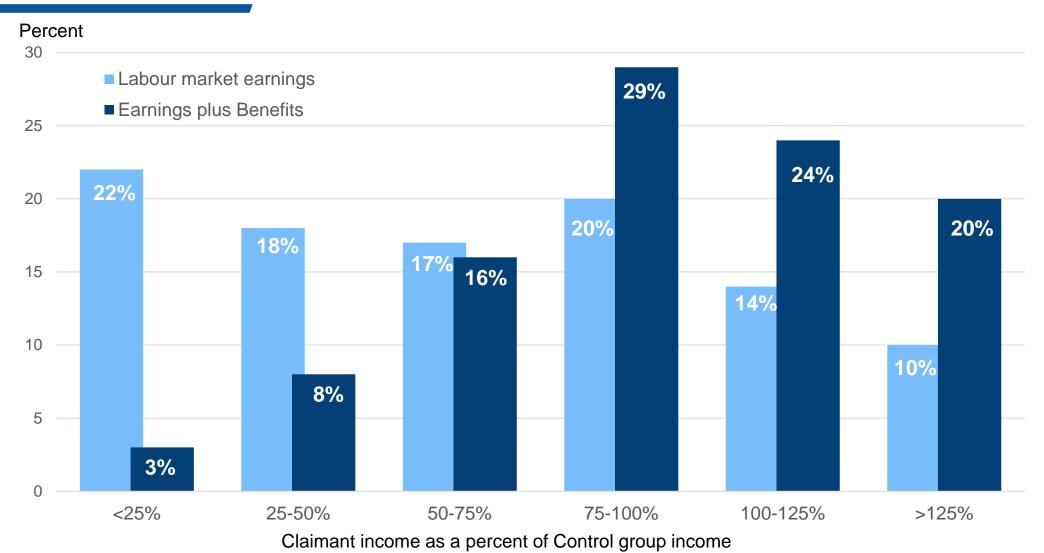


Labour market earnings: Workers with Permanent Impairments, Ontario 1998-2002



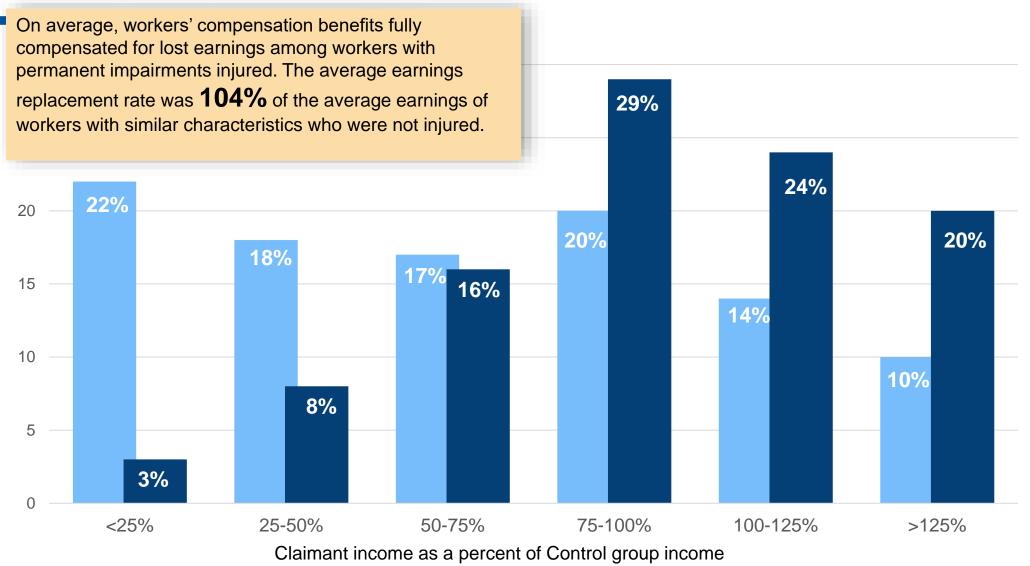


Labour market earnings, Earnings plus Benefits: Workers with Permanent Impairments, Ontario 1998-2002





Labour market earnings, Earnings plus Benefits: Workers with Permanent Impairments, Ontario 1998-2002





Some final thoughts: 20 years in the same job!





Research Excellence Safe Work Healthy Workers Announcing ...

The Cameron Mustard Early Career Development Award

To be given annually to a Canadian early career researcher to help fund activities to help promote, develop and/or accelerate their research career.

More details to follow in late spring/early summer 2023

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