

Total Health Approach for Workplaces: Linking Prevention and Return to Work

WCB Saskatchewan | Compensation Institute | March 25, 2019

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Legal Moral Financial

Value Proposition of Investing in Workplace Health and Productivity How do we reduce the likelihood of injury and illness in workers?



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- Safety programs and supporting cultures focused on
 - Hazard identification, assessment and control
- Generally deal with the concepts of Hazard and Risk
 - Chemical, Ergonomic (job, tool design), Health, Physical etc.



How do we reduce the likelihood of injury and illness in workers?



- Wellbeing programs focused on
 - 'Off' the job health (smoking, obesity, diabetes, physical activity, heart health etc.)
- When workers are injured or ill, there are sophisticated programs in place that have a SAW and RTW component

Are we missing something?



- This approach has expanded to include psychological, psychosocial and mental health components both on and off the job
 - Due primarily to the increase in prevalence of mental health issues in adults of working age
 - Fitness for duty should be looked at in a different light





Source: Centers for Disease Control and Prevention, Munoz et al. 2017

Chronic diseases impacting health and productivity in your workplace



Asthma (7.6%) Fibromyalgia (1.1%) Arthritis (9.8%) Back problems (17.5%) Diabetes (4.0%) COPD (1.6%) Migraine (10.3%) Heart disease (2.2%)

Cancer (3.5%)

Intestinal/stomach ulcers (2.3%) Urinary incontinence (1.3%)

Multiple chemical sensitivities (2.4%)

Anxiety disorders (3.9%)

Mood disorders (5.3%)

Bowel disorders (3.8%) Chronic fatigue syndrome (0.8%)





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BMI (Body Mass Index) Normal 47.9% Overweight 34.6% Obese 17.6%

> Alcohol Regular 72.3% Occasional 13.8% None 13.9%

Activity Active 29.5% Moderate 26.8% Inactive 43.7% **Tobacco** Current Daily 17.2% Current Occasional 5.9% Former Daily 20.6% Former Occasional 16.9% Never 39.5%

Work Stress Not at all Stressful 9.0% Not very Stressful 19.1% A bit Stressful 42.2% Quite a bit Stressful 24.6% Extremely Stressful 5.1%

Source: Scand J Work Environ Health 2016



Impact of health and productivity investments -What does this mean for you? Employees? Stakeholders?

Absenteeism (Measure in real time) Dresenteeism (Estimate at 5x, 7.5x and 10x Absenteeism)



Source: Conference Boar of Canada 2017

\$16.6 Billion Cost of Absenteeism

\$ 124.5 Billion Cost of Presenteeism

Source: Conference Boar of Canada 2017



	Number of Absent Workdays (reasons)	Previous 3 Months	1 Year	CBOC	%	
28%	All health reasons	1.35	5.4	8.9	61%	
Of Workers	Chronic disease	0.42	1.68			
Reporting	Injuries	0.22	0.88			
Absences	Infectious disease	0.37	1.48			
	Other health problems	0.34	1.36			



Chronic Condition	%	PD* 3 Months	PD* 12 Months	\$ Millions
Asthma	7.6%	1.43	5.72	\$124
Arthritis	9.8%	1.39	5.56	\$135
Back problems	17.5%	1.76	7.04	\$621
Diabetes	4.0%	1.53	6.12	\$83
Migraine	10.3%	1.58	6.32	\$245
Cancer	3.5%	1.79	7.16	\$115
Intestinal/stomach ulcers	2.3%	1.8	7.2	\$77
Anxiety disorders	3.9%	1.25	5	\$25
Mood disorders	5.3%	2.25	9	\$299
Bowel disorders	3.8%	1.89	7.56	\$144

Source: Scand J Work Environ Health 2016

Depression in the workplace

Point Prevalence

Source: Conference Boar of Canada 2017

Millio





Relationship between mental health issues (mood disorders) and the number of physical health symptoms

Source: Krronke et al. 2015

An integrated schematic of health and productivity





Source: Amell 2016



Source: Amell 2016

Case study in workplace organization





	ROI
Rationale for Investment in Total Workplace Health & Productivity	 Manage or reduce health care costs, medical costs, pharmacy benefit spend Reduce the number of absence days Manage/reduce work disability claims (disability prevention)
Measurement Strategies	 Health, medical, pharmacy, absenteeism and work disability data These are easier to evaluate because data are more readily available These are financial measures reported in dollars

VOI

Rationale for Investment in Total Workplace Health & Productivity

- Increase discretionary effort & employee
 engagement
- Improve employee and workforce productivity
- Reduce employee health risks
- Improve employee job satisfaction and morale
- Increase on-the-job safety
- Reduce presenteeism
- Attract or retain talented employees
- Improve employee energy levels at work
- Impact business performance and profitability
- Improve comradery and team effectiveness
- Have fun



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The Stock Performance of C. Everett Koop Award Winners Compared With the Standard & Poor's 500 Index

Ron Z. Goetzel, PhD, Raymond Fabius, MD, Dan Fabius, DO, Enid C. Roemer, PhD, Nicole Thornton, BA,



3.7:1

ROI Work Reintegration

ROI Prevention 3.3:1

Wellbeing Programs

5

Absenteeism Savings 3.8:1

Disease Management

Lifestyle

Management

2

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Source: ISSA 2017, Rand Corporation, Baiker et al. 2010

Modified Duties Supporting Stay at Work (SAW) Practices Rethink **Fitness for Duty**

Bossectomy

Work Disability is Rarely Medically Required

Psychographics

Stakeholder Involvement **Employee Engagement** Level **Temporary Work** Disability **Experience of Worker Culture of Entitlement** at Organization

Amount of Discretionary Effort

Workers' Relationships

Iatrogenic Nature of Work Disability Programs J Occup Rehabil (2013) 23:597–609 DOI 10.1007/s10926-013-9430-4

The use of machine learning classification techniques appears to have resulted in classification performance better than clinician decision-making.

and accompanying computer-based clinical decision support tool to help categorize injured workers toward optimal build a classification system with multiple independent and dependent variables. *Results* The population included



Work is good for us!

Not working may be even worse for us!

"You don't get ill workers well to put them back to work. You put them back to work to get them well."

Source: Waddell & Burton 2006, Brigham & Christian 2016, Pimental 2016