



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

WCB Saskatchewan | Compensation Institute | March 25, 2019

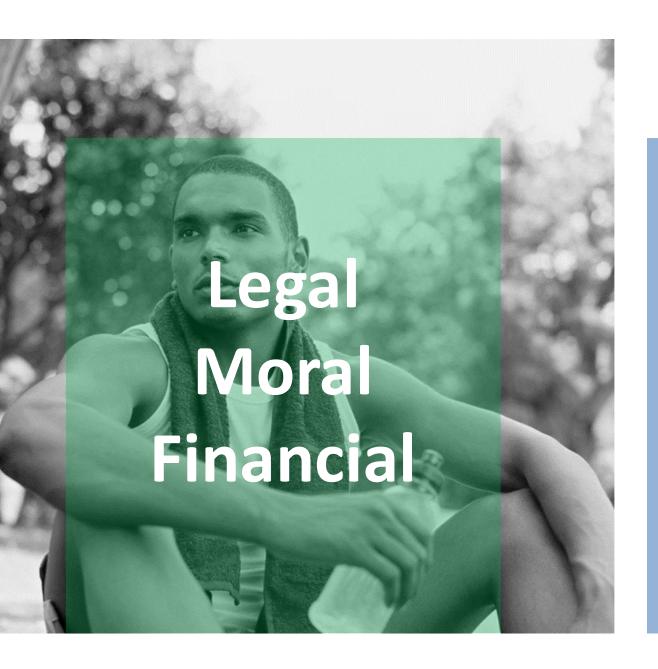
Dr. Tyler Amell | Adjunct Faculty PCU-WHS | Chief Relationship Officer CHT tyler.amell@corehealth.global | 1.866.396.2673 x111 | corehealth.global







Connect with me on LinkedIn: www.linkedin.com/in/drtyleramell/

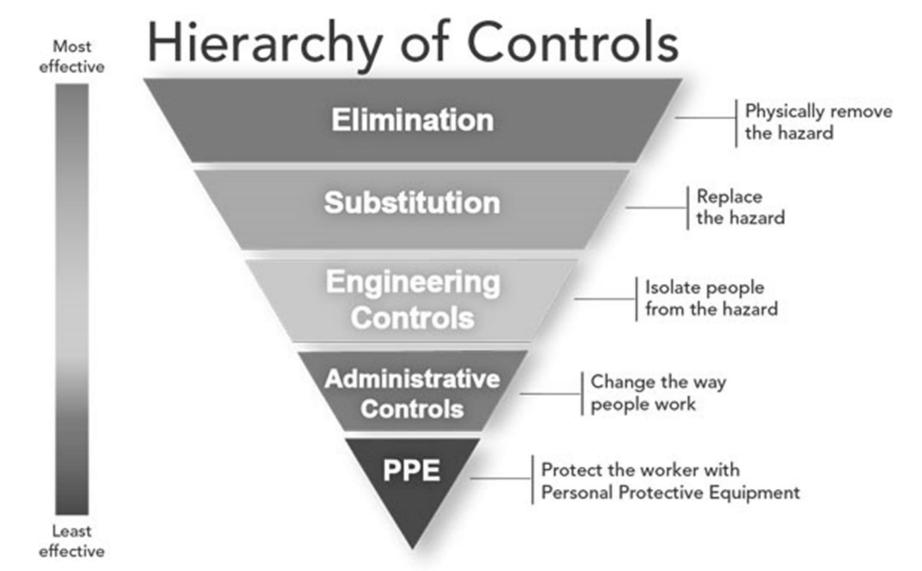


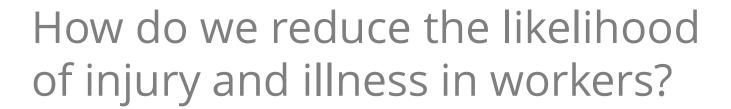
Value
Proposition of
Investing in
Workplace
Health and
Productivity





- 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.







- 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

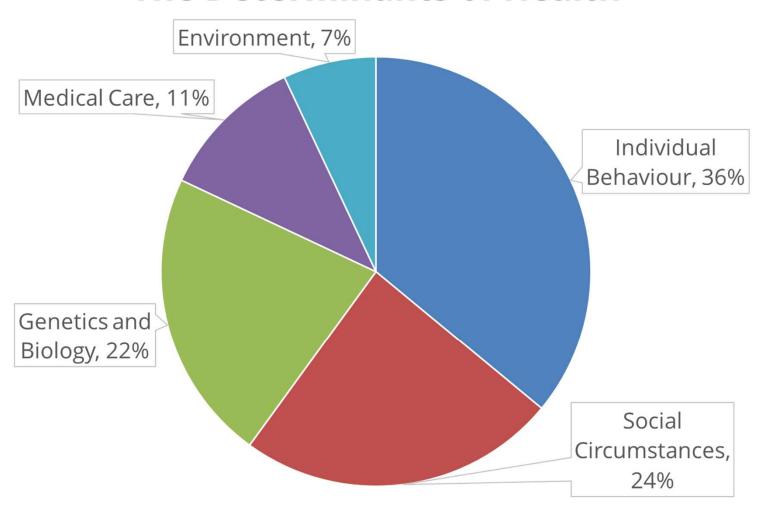
© CoreHealth Technologi

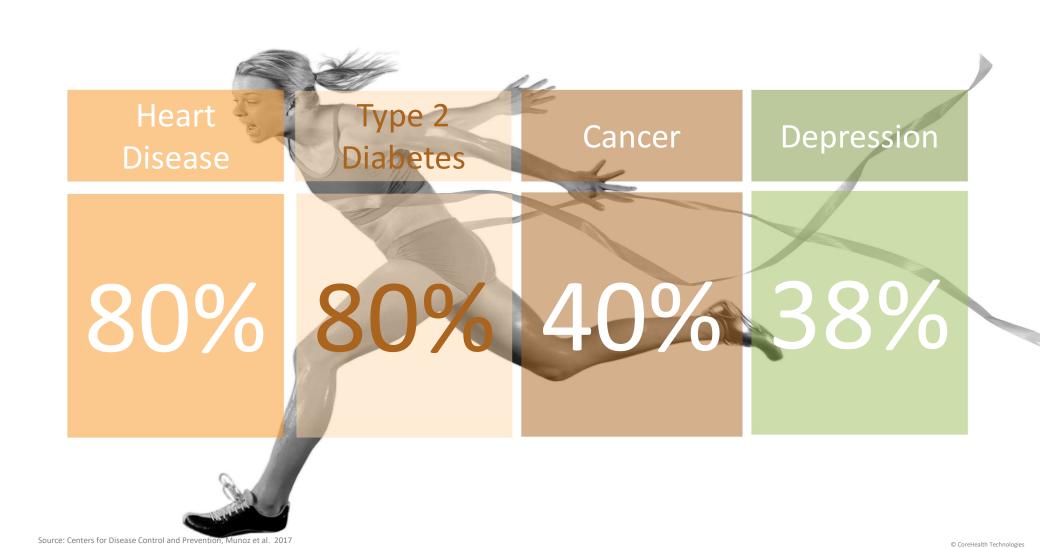
Are we missing something?



- 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

The Determinants of Health





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%)

Source: Scand J Work Environ Health 2016

© CoreHealth Techno



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

Alcohol

Regular 72.3% Occasional 13.8% None 13.9%

Activity

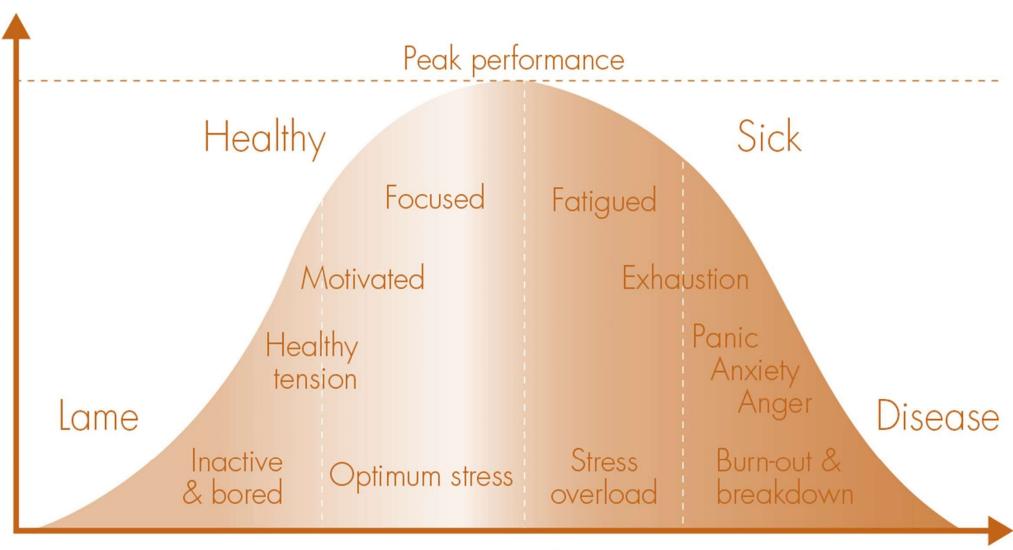
Active 29.5% Moderate 26.8% Inactive 43.7% Tobacco
Current Daily 17.2%
Current Occasional 5.9%
Former Daily 20.6%
Former Occasional 16.9%
Never 39.5%

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

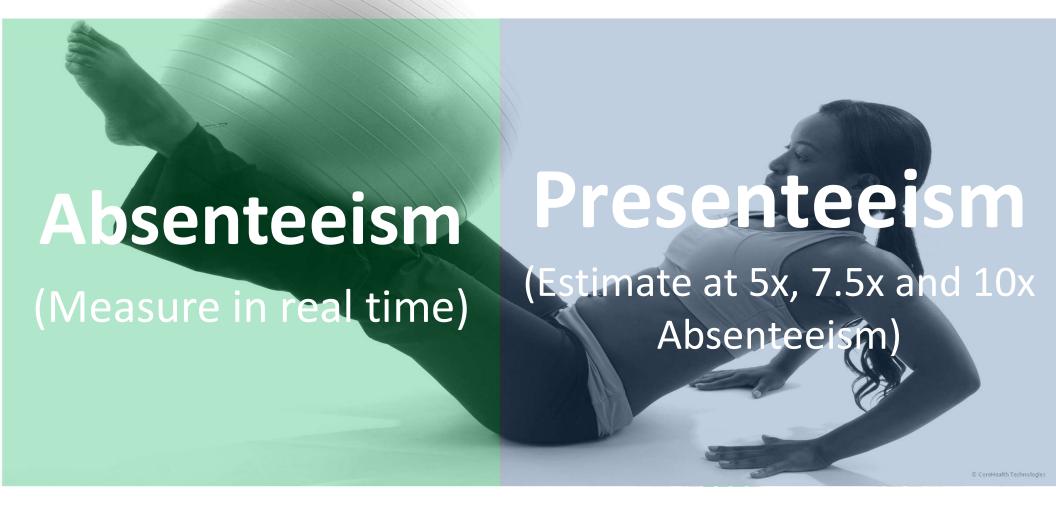
© CoreHealth Technolo



Stress level

© CoreHealth Technologi

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





7.8 Days
Private

8.9 Days
Mean

12.7 Days
Public

ABSENTEEISM

7.5X

PRESENTEEISM

58.5 Days
Presenteeism

66.8 Days
Presenteeism

95.3 Days

Presenteeism

Source: Conference Boar of Canada 2017

CoreHealth Techno



Source: Conference Boar of Canada 2017



28%

Of Workers
Reporting
Absences

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

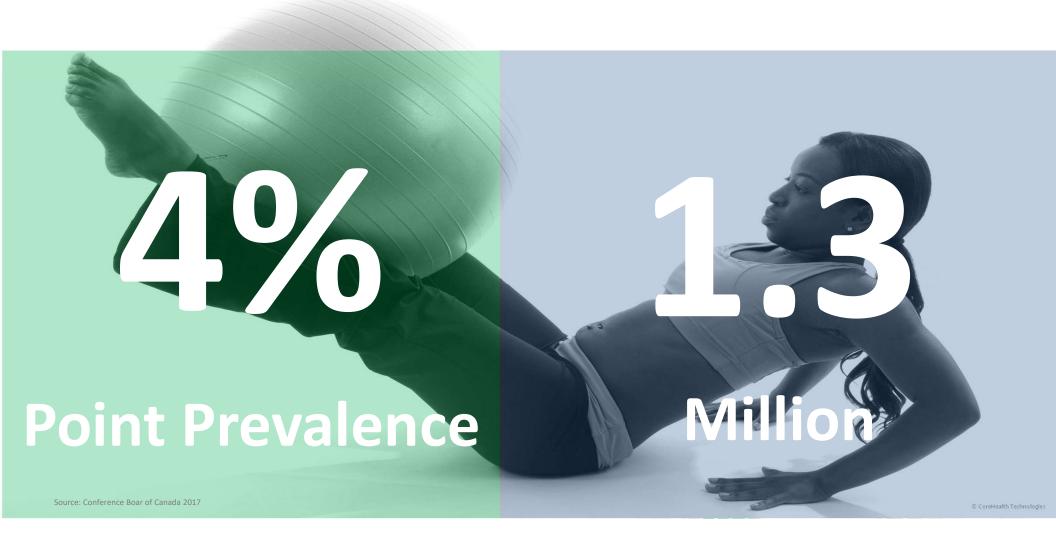
Source: Scand J Work Environ Health 2016



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

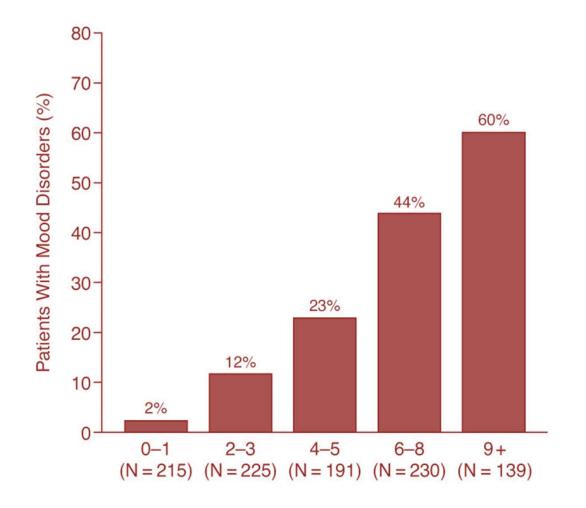
Depression in the workplace



In the Workplace

Impacted by Presenteeism

Source: Conference Boar of Canada 2017

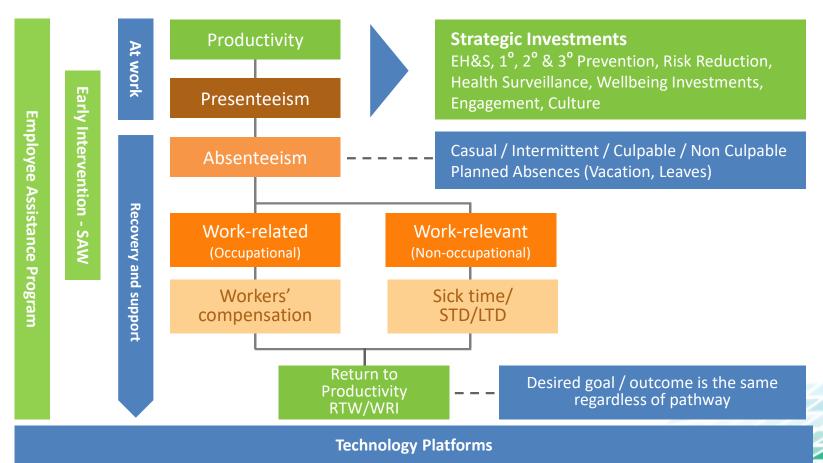


Relationship between mental health issues (mood disorders) and the number of physical health symptoms

Source: Krronke et al. 2015

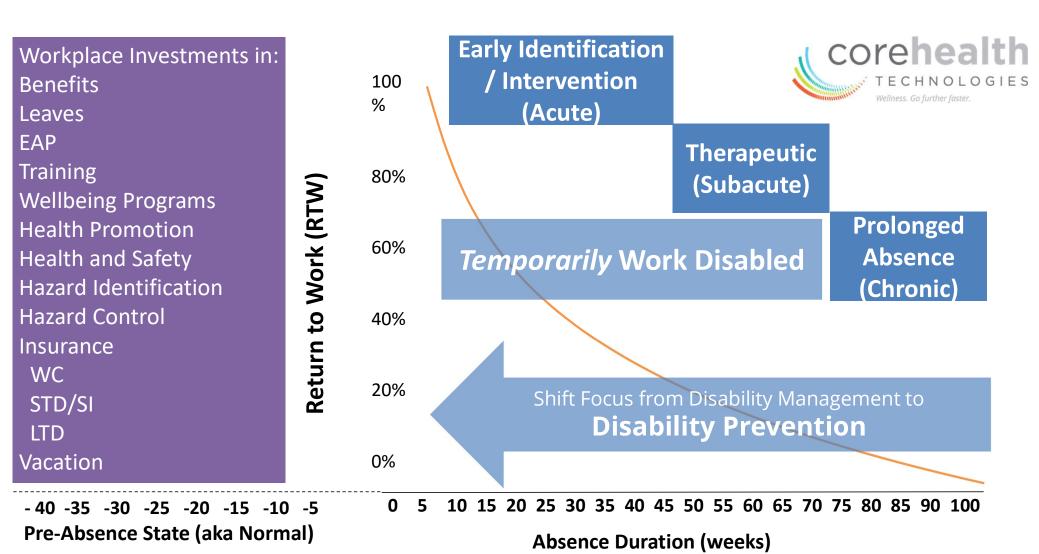
An integrated schematic of health and productivity





Source: Amell 2016

© CoreHealth Technolo

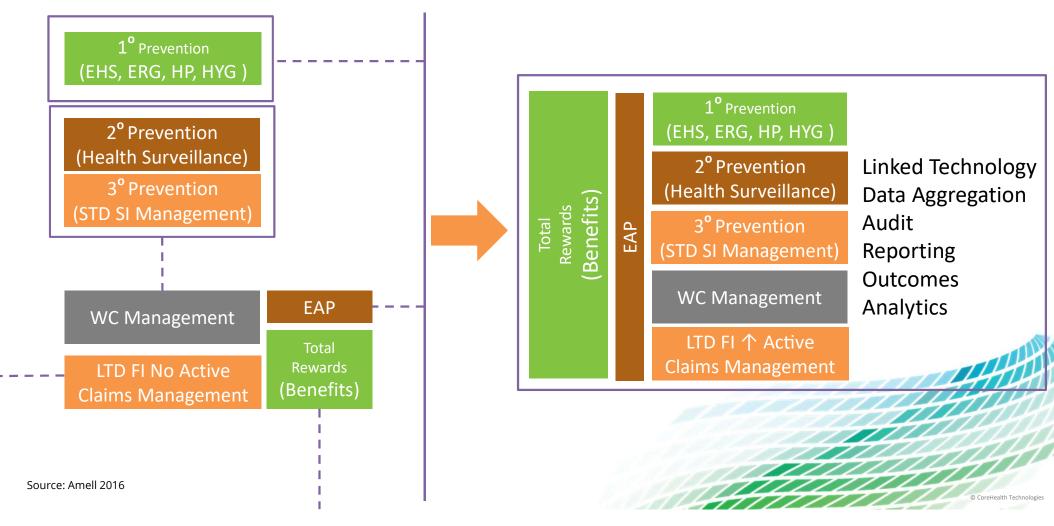


SAW / Presenteeism

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

	VOI
Measurement Strategies	 These outcomes are more difficult, if not impossible to accurately measure Special efforts and expense are required to get these data They are considered "softer" measures because they are often self-reported They are not easily reported in dollars

OPEN

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,

325% vs 105%

Objective: To explore the link and well-being programs of their

Methods: Stock performance of C. Everett Koop National Health Award winners (n=26) was measured over time and compared with the average performance of companies comprising the Standard and Poor's (S&P) 500 Index. Results: The Koop Award portfolio outperformed the S&P 500 Index. In the 14-year period tracked (2000–2014), Koop Award winners' stock values appreciated by 325% compared with the market average appreciation of 105%. Conclusions: This study supports prior and ongoing research demonstrating a higher market valuation—an affirmation of business success by Wall Street investors—of socially responsible compa-

- Discuss the authors' proposed framework for how company health and wellness programs affect business performance, including the roles of corporate social responsibility and job satisfaction.
- Summarize the new findings on the stock market performance of companies that won the C. Everett Koop Award, compared to the S&P 500.
- Discuss the insights and critiques presented in the accompanying editorial by O'Donnell, including the similarities and differences in the findings of the three new

3.7:1

ROI Work Reintegration

2.2:1

ROI

Prevention

3.3:1

Wellbeing Programs

Absenteeism Savings 3.8:1

Disease Management

0.5:1

Lifestyle Management

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

latrogenic Nature of Work Disability Programs

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

Gomplete Health Program Assess Individual Health Risk

(wearable tech)

Assess

Willingness to

Change

Assess
Individual
Discretionary
Effort

Programming
To Shift
Behavior

@ Constitute to the sale

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."