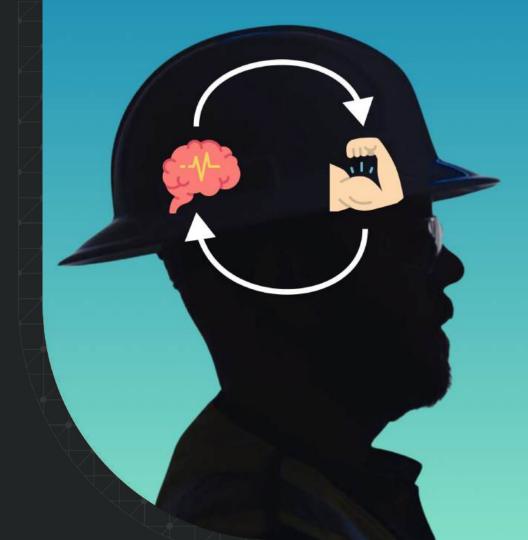
# **Building Workforce Resilience:**

How to achieve your safety goals by investing in employee mental and physical health





### **Meet The Speakers**



Dr. Joe Leutzinger, PhD

President of Wellness Directions
Business Partner of Headversity
35+ years Wellness Industry Veteran



Dr. Kevin Rindal, DC

CEO and CoFounder of Vimocity
Human Performance & Safety Expert
10+ years experience on Olympic Sports
Medicine Staff

# The Future of Safety

Considerations for Building Workforce Resilience



PRESIDENT OF WELLNESS DIRECTIONS
BUSINESS PARTNER AT HEADVERSITY



### What We'll Cover

- The business case for investing in employee health
- The crucial connection between mental wellness and safety
- Opportunities for addressing employee mental health & safety risks

### **Employer Cost of Poor Health**



\$575B

average cost to US employers annually



\$3.9K

per employee per year

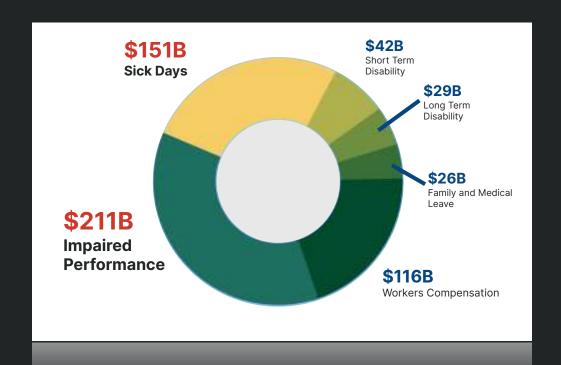


1.5B

days of lost productivity per year

### **Sources of Employer Health Costs**

Productivity losses is the primary cost driver



#### **The Real Problem**



# Presenteeism Categories:

- PERSONAL ISSUES
   Family, debt, relationships, substance abuse
- 2. BUSINESS ISSUES
  Job design, work relationships, uncertainty
- 3. PHYSICAL HEALTH DECLINE
  Chronic illness, major illness diagnosis
- 4. PSYCHOLOGICAL HEALTH ISSUES
  The biggest problem affecting an increasing number of people, and still growing



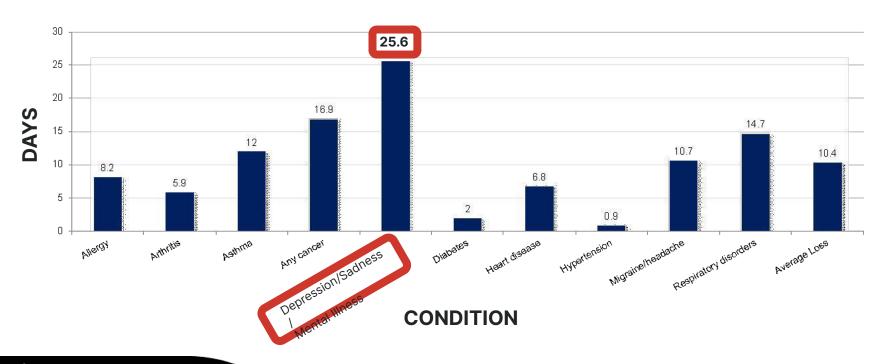
# A Presenteeism Report Card

LOCKHEED MARTIN PILOT STUDY

- Assessed impact of 28 medical conditions
- Loss costs based on average salary of \$45,000
- The 28 conditions cost the company \$34 million annually

Condition	Prevalence	Avgerage Productivity Loss	Avg Annual Loss
Migraine	12%	5%	\$434,385
Arthritis	20%	6%	\$865,530
Chronic Iower-back pain	21%	6%	\$858,825
Allergies or sinus trouble	60%	4%	\$1,809,945
Asthma	7%	5%	\$259,740
GERD (acid reflux disease)	15%	5%	\$582,660
Dermatitis/ Skin Condition	16%	5%	\$610,740
Flu in the past two weeks	18%	5%	\$607,005
Depression	14%	8%	\$786,600

### **Average Days Per Year Absent**



# **Employee Assistance Programs (EAPs) and Therapists Are No Longer Enough**

**17.2%** 

Of the workforce reports lost productivity due to mental distress at work and home

4x more

Unplanned absences for those who report poor mental health

84%
Of workers
experienced at least
one mental health
challenge over the
past year.

50%

Of an employee's base salary lost per employee turnover. 89% who quit their jobs said they felt burned out and unsupported

\$3K more

In healthcare expenses per year for each employee with anxiety or depression

**ECOSYSTEM OF MENTAL HEALTH SUPPORT** 

### The Pre-EAP Has Emerged As The Primary Need



A NEW APPROACH TO EMPLOYEE MENTAL WELLNESS

### Leading Companies Now See The Need To Expand Their Approach Beyond Illness



# The Business Case For Mental Health Prevention

Sample cost analysis for a company of 1,000 with an avg annual salary of \$50K

**840** of the 1000 employees experience 1+ mental health challenge (84%)

1 hour of lost productivity per day

8 more days of unplanned absence than peers

240 will turnover due to burnout, costing at least 50% of salary to replace

**53.000 more in healthcare expenses** 

TOTAL EMPLOYER COST OF POOR MENTAL HEALTH





THE CONNECTION TO SAFETY OUTCOMES

### Mental Health's Impact On Injury Risk

Retrospective study conducted to examine the relationship between health status and injury occurrences:

- Data matched for employees within safety-sensitive industries who have completed a Health Risk Assessment and experienced an injury as classified by OSHA
- 11 Risk Factors Examined:
  - Overweight
  - Poor diet
  - Physical inactivity
  - Smoking
  - High Cholesterol
  - Fatigue

- High BP
- Diabetes
- Asthma
- Stress
- Depression



**EMPLOYEE HEALTH'S IMPACT ON SAFETY** 

# **Retrospective Study Outcomes**

#### **Experimental Group**

 Employees completing an HRA and experiencing workplace injury in same year (n = 1,023)

#### **Control Group**

 HRA data for those not injured (n = 51,769)

#### **Findings**

**Statistically Significant Predictors** of a Workplace Injury:

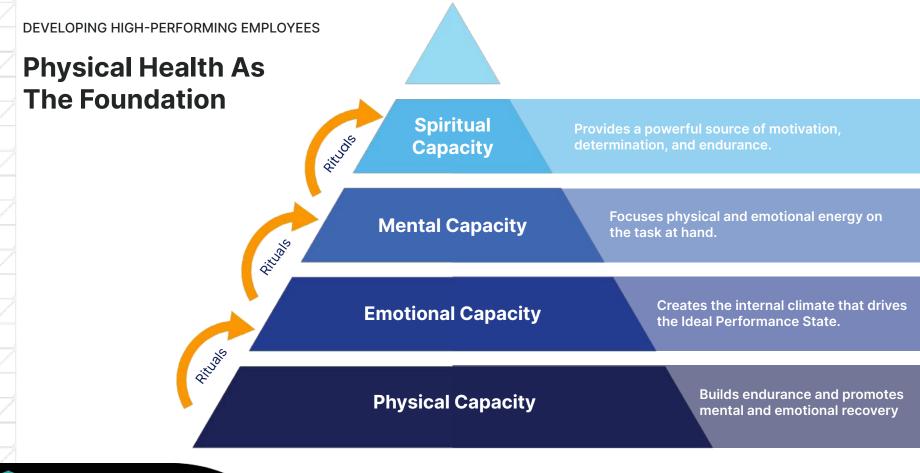
- Smoking (p = .000)\*
- Fatigue (p = .000)\*
- Obesity (p = .000)\*
- **Depression** (p = .024)\*

WHAT TO DO ABOUT IT

# Opportunities for Addressing Mental Health & Safety Risks

## Resource Allocation Considerations for Maximum Impact

- Allocate resources to Pre-EAP programs dedicated to prevention
- Invest in the physical well-being of employees



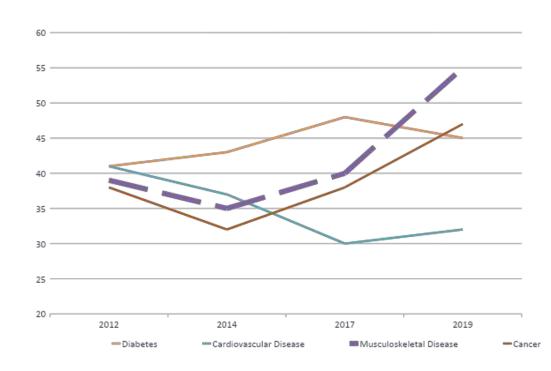
### **Physical Health: Where To Focus?**

Musculoskeletal issues are the low hanging fruit

#1

### Source of employer healthcare costs

- MSD's exceed cancer, diabetes & cardiovascular disease
- #1 for disability & lost workdays





### **Summary Points:**

- The cost of poor employee health is often underestimated
- 2. Mental wellness has a direct impact on safety outcomes
- **3.** Musculoskeletal pain is the low hanging fruit for physical capacity gains

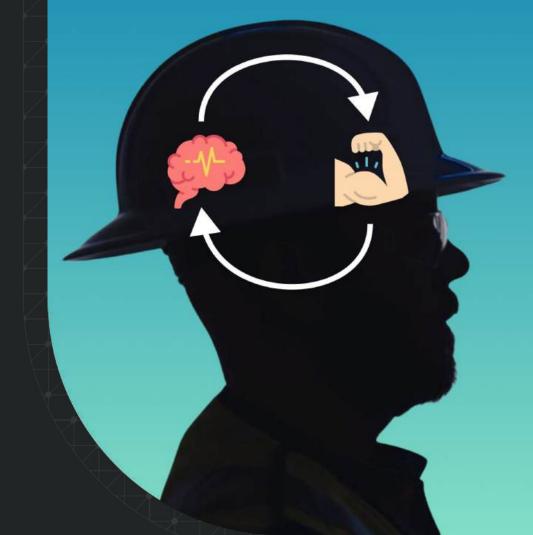
## **Thank You!**

Joseph Leutzinger, PhD

PRESIDENT OF WELLNESS DIRECTIONS BUSINESS PARTNER AT HEADVERSITY



# **Building Workforce Resilience**



Kevin Rindal, DC

CEO & COFOUNDER OF VIMOCITY

### What We'll Cover

- Defining workforce resilience
- 3 ways pain affects employee mental health and safety outcomes
- Opportunities for enhancing the mental and physical capacity of your workforce

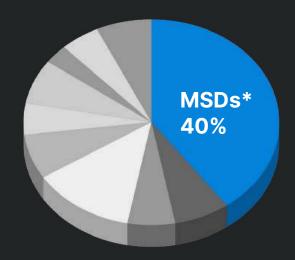
**DEFINING WORKFORCE RESILIENCE** 

# **An Employee's Current Capacity**

- Strength, fitness, mobility
- Mental clarity
- Ability to handle physical and mental stress
- Ability to recover from exertion



### **#1 Threat to Employee Resilience: PAIN**



40% of all workplace injuries



Present but not productive

### **A Painful Reality**

79%

Of 122 lineworkers surveyed experienced at least moderate lower back pain weekly



### #1 Threat to Employee Resilience: PAIN

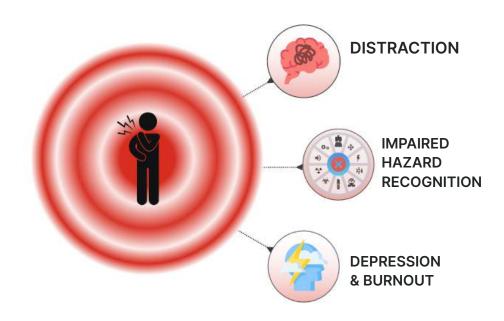
- 1 Increased Distraction
- 2 Mood Decline
- 3 Compensatory Injuries



### 1. The Impact of Pain on Distraction

#### Pain has been shown to:

- Impair judgment and information processing leading to riskier behaviors
- Narrow focus leading to impaired hazard recognition
- Negatively impact mental health and quality of life





Zhang X, et al. Evidence for Cognitive Decline in Chronic Pain: A Systematic Review and Meta-Analysis. Front Neurosci (2021)

Namian M, et al. Effect of Distraction on Hazard Recognition and Safety Risk Perception. Journal of Construction Engineering and Management, (2018).

### In a Setting Where Pain is not a factor.....

Fatal-Four Injuries: Falls, caught-in/between, struck by, and electrocution

**57%** 

Of the "Fatal Four" Hazards were identified by 280 construction workers at 57 job sites.<sup>3</sup>

18%

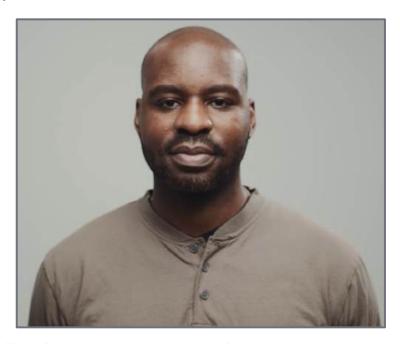
Of the "Non-Fatal Four" Hazards were identified by this same group.<sup>3</sup>

3. Albert A, Pandit B, Patil Y. Focus on the Fatal-Four: Implications for Construction Hazard Recognition. Safety Science, (2020).

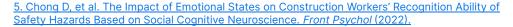
### 2. The Impact of Pain on Mood Decline

(Mood Decline: fatigue, anxiety, depression, etc.)

**Mood Decline:** Frequently associated with chronic pain and can lead to fatigue, burnout and even depression. All of which have been shown to not only negatively affect culture due to spillover and crossover effects, but also result in safety-averse behaviors.<sup>4,5</sup>



<sup>4.</sup> Morgan J, et al. Direct and indirect effects of mood on risk decision making in safety-critical workers. Accident Analysis & Prevention (2013).



### 3. The Impact of Pain on Compensatory Injuries

#### Pain has been shown to:

- Change the way we move
- Impair balance and muscle activation
- Lead to overuse or strain in other areas of the body
- Cause us to take short-cuts



6. Sterling M, Jull G, Wright A. The effect of musculoskeletal pain on motor activity and control. *J Pain* (2001).

# Solution for Building Workforce Resilience

### **Building Workforce Resilience**

Requires a Holistic Solution



**Movement Health** 



**Ergonomics & Body Position** 



Recovery and Performance Optimization







### **Movement Health**









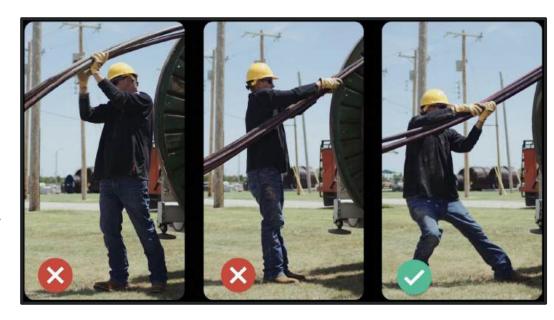




### **Body Positioning and Ergonomics**

### **Optimize:**

- Force Production & Strength
- Stability
- Reduction of Strain to the Body



### **Recovery and Performance Optimization**

### **Key Drivers:**

- Hydration
- Nutrition
- Sleep
- Stress Reduction
- Movement Health (Recovery)



### **Building Workforce Resilience Into the Workday**



Pre-Job Briefing & Hazard Recognition



Pre-Job Warmup (Movement Health)



Body Position and Ergonomics



Recovery & Performance Optimization

### **Summary:**

- Pain is a Threat to Workforce
   Resilience and can lead to:
  - Distraction
  - Mood Decline
  - Compensatory Injuries
- Building Workforce Resilience Into the Workday is a Winning Strategy:
  - Movement Health
  - Body Position/Ergonomics
  - Performance Optimization and Recovery



#### **Building Workforce Resilience Drives:**

**NOW MORE THAN EVER** 

Safe & Reliable
Energy Requires a
Safe & Resilient
Workforce



**Better Health & Safety Outcomes** 



A More Productive & Engaged Workforce



Higher Employee Satisfaction & Retention



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### **Safety Leadership**

Tuesday, June 18 11:00 AM PST



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### **Questions For Our Speakers?**



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Dr. Kevin Rindal, DC kevin@vimocity.com



## **Thank You!**

