The CDC Worksite Health ScoreCard OHS Module: Findings from the National Healthy Worksite Program



PRESENTED BY:
GRETCHEN A. PETERY¹

COAUTHORS:
KIMBERLY DAVIES-SCHRILS¹,
LINDSEY A. GRAHAM¹,
JANET BARNES-FARRELL¹,
NICHOLAS WARREN²,
SUZANNE NOBREGA³, AND
MARTIN G. CHERNIACK²



¹University of Connecticut, Storrs, CT; ²University of Connecticut Health Center, Farmington, CT; and ³University of Massachusetts Lowell, Lowell, MA





Occupational Health and Safety (OHS): An important component of Total Worker Health

- 4
- Occupational health and safety research and practice traditionally compartmentalized
 - Focused on components of an individual
 - Separate programs for health promotion and health protection
- Health and work-related factors mutually lead to many health and safety problems workers experience (CDC, 2013)
 - Poor health affects ability to work safely
 - Unsafe practices impact health
- Total Worker Health Program
 - O Recommend open source system, "toolkit" resources (Cherniack et. al, 2011)



Research Project Overview

5

National Healthy Worksite Program (NHWP)

- Collaborating partners
 - × CDC
 - Center for Promotion of Health in the New England Workplace (CPH-NEW)
 - **UCONN Health Center**
 - ▼ UCONN Industrial/Organizational Psychology Department

Overall Project Goals

- Conduct workplace health assessments
- Identification of individual, organizational and environmental factors that influence health and wellness
- Implementation of prevention and wellness strategies



Workplace Assessment Tools

6

CDC Health Scorecard

- o 16 modules (e.g. diabetes, nutrition, lactation support, stress management)
- Occupational Health & Safety (OHS) Scorecard Module
 - Importance of Health and Safety
 - Accidents and Injury Prevention
 - **x** Training
 - **Reporting Injuries**
 - **▼** Investigating Causes
 - **X** Hazards and Solutions
 - Coordinated health & safety programs for health and wellness
 - Paid time of for vacation and/or illness





- Occupational Health & Safety (OHS) Scorecard Module
 - o 11 total items
 - o Yes/No response format
 - 1-3 point assignment
 - o Score range: (0-22) points
 - o Item lead "During the past 12 months, did your worksite:"
 - Post-item guidance provided



8

• 3-point Items:

- Encourage reporting of injuries and near misses?
 (Answer "yes" if there is a written and/or verbal encouragement to report injuries, illnesses, or near misses.)
- O Have a program to investigate the causes of injuries or illnesses?

 (Answer "yes" if, for example, there were all-hands meetings, tool box meetings, surveys, or focus groups for discovering and solving job health and/or safety issues.)
- Provide opportunities for employee input on hazard solutions?
 (Answer "yes" if, for example, there were all-hands meetings, tool box meetings, surveys, or focus groups for discovering and solving job health and/or safety issues.)
- Employ or contract for an occupational health and safety professional? (Answer "yes" if anyone is employed or contracted whose job includes improving health and safety: examples include occupational nurse, safety manager, environmental health manager, ergonomist, an insurance safety specialist who visits regularly.)



• 2-point Items:

- Provide all new workers formal, comprehensive training on how to avoid accidents or injury on the job?
- Have a written injury and/or illness prevention program? (Answer "yes" if there is a written policy, whether or not it is posted.)
- Coordinate programs for occupational health and safety with programs for health promotion and wellness?

(Answer "yes" if, for example, a new safety initiative also includes a wellness component such as attention to diet, physical activity, smoking, etc.)



10

• 1-point Items:

Include improving or maintaining job health and safety in the business objectives or organizational mission statement?

(Answer "yes" if any written vision, planning, or guideline documents include language about improving or maintaining worker health and safety.)

 Provide informational materials about health and safety at work to employees in most departments?

(Answer "yes" if, for example, there are health and safety newsletters, facto sheets, posters, LED displays, emails, letters, broadcast messages, or other communications provided to employees.)

• Provide paid time off (PTO) for days or hours dye to illness of employees or dependents (full-time, non-exempt employees)?

(Note: non-exempt employees are those who are eligible to receive overtime pay if they work more than 40 hours in a week. Typically they are hourly workers.)

 Provide paid vacation time or personal days or hours to full-time, nonexempt employees?



Overall Sample Characteristics

Final Sample

- o 95 Organizations
- o 5,451 employees
- Avg. participation rate:56.8%

| ((11)) | | | | | |
|------------------|-------------------------------|------|-------|--|--|
| | | M | SD | | |
| | Age (years) | 43.1 | 12.5 | | |
| N=5,451 | Tenure (years) | 7.5 | 8.5 | | |
| | | % | N | | |
| | Gender (female) | 63.8 | 3,476 | | |
| | Latino (yes) | 11.0 | 89.0 | | |
| Race | | | | | |
| White | | 70.4 | 3,753 | | |
| Black o | r African American | 18.7 | 997 | | |
| Asian | | 3.9 | 208 | | |
| | Hawaiian or Other Islander | .4 | 19 | | |
| Americ Native | an Indian or Alaska | ·5 | 28 | | |
| Other | | 6.1 | 324 | | |



Overall Sample Characteristics

Organizational characteristics

- Size
- Sector
- Sector Classification

| Size | N |
|--------------------|----|
| Small (1-49) | 25 |
| Medium (50-99) | 25 |
| Large (100-249) | 32 |
| Extra Large (250+) | 13 |

| Blue Collar | N | White Collar | N |
|----------------|----|------------------------------|----|
| Agriculture | 2 | 2 Retail | |
| Construction | 5 | Financial / Real Estate | 9 |
| Manufacturing | 13 | Services | 52 |
| Transportation | 2 | Public Administration | 6 |
| Wholesale | 3 | | |
| Total | 25 | Total | 70 |



| Point Value | Item | Yes | No |
|----------------|---|-------|-------|
| 3 | Provide opportunities for employee input on hazards and solutions | 57.9% | 42.1% |
| 3 | Have a program to investigate the causes of injuries or illnesses | 65.3% | 34.7% |
| 3 | Encourage reporting of injuries and near misses | 86.3% | 13.7% |
| 3 | Employ or contract for an occupational health and safety professional | 42.1% | 57.9% |



| Point Value | Item | Yes | No |
|----------------|--|-------|-------|
| 2 | Provide all new workers formal, comprehensive training on how to avoid accidents or injury on the job | 54.7% | 45.3% |
| 2 | Have a written injury and/or illness prevention program | 52.6% | 47.4% |
| 2 | Coordinate programs for occupational health and safety with programs for health promotion and wellness | 20.0% | 80.0% |



| Point Value | Item | Yes | No |
|----------------|---|-------|-------|
| | Provide paid time off (PTO) for days or hours due to illness of employees or dependents (full-time, non-exempt employees) | 75.8% | 24.2% |
| | Provide paid vacation time or personal days or hours to full-time (non-exempt employees) | 86.3% | 13.7% |
| | Provide informational materials about health and safety at work to educate employees in most departments | 55.8% | 44.2% |
| | Include improving or maintaining job health and safety in the business objectives or organizational mission statement | 35.8% | 64.2% |



OHS Module Item Rankings

16

Top 3 Items

- Encourage reporting of injuries and near misses (3 points)
- Provide paid vacation time or personal days or hours to full-time (non-exempt employees) (1 point)
- Provide paid time off (PTO) for days or hours due to illness of employees or dependents (full-time, non-exempt employees) (1 point)

Bottom 3 Items

- Coordinate programs for occupational health and safety with programs for health promotion and wellness (2 points)
- Include improving or maintaining job health and safety in the business objectives or organizational mission statement (1 point)
- Employ or contract for an occupational health and safety professional (3 points)



| Point Value | Item | Small | Medium | Large | X Large |
|----------------|---|-------|--------|-------|---------|
| 3 | Provide opportunities for employee input on hazards and solutions | 76.0% | 48.0% | 53.1% | 53.8% |
| 3 | Have a program to investigate the causes of injuries or illnesses | 68.0% | 60.0% | 59.4% | 84.6% |
| 3 | Encourage reporting of injuries and near misses | 88.0% | 88.0% | 78.1% | 100.0% |
| 3 | Employ or contract for an occupational health and safety professional | 32.0% | 36.0% | 46.9% | 61.5% |



| Point Value | Item | Small | Medium | Large | X Large |
|----------------|---|-------|--------|-------|---------|
| 2 | Provide all new workers formal, comprehensive training on how to avoid accidents or injury on the job | 48.0% | 60.0% | 50.0% | 69.2% |
| 2 | Have a written injury and/or illness prevention program | 52.0% | 56.0% | 50.0% | 53.8% |
| 2 | Coordinate programs for occupational health and safety with programs for health promotion and wellness | 28.0% | 16.0% | 21.9% | 7.7% |

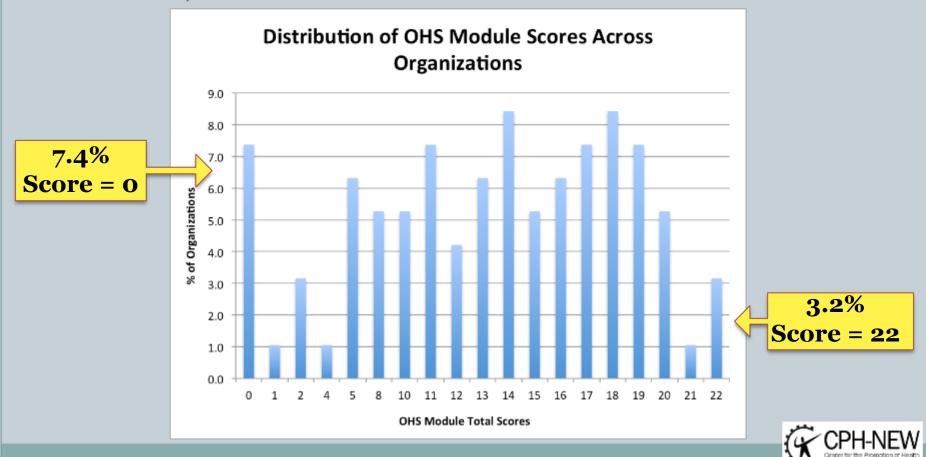


| Point Value | Item | Small | Medium | Large | X Large |
|----------------|--|-------|--------|-------|---------|
| 1 | Provide paid time off (PTO) for days or hours due to illness of employees or dependents (full-time, non-exempt employees) | 76.0% | 76.0% | 71.9% | 84.6% |
| 1 | Provide paid vacation time or personal days or hours to full-time (non-exempt employees) | 92.0% | 84.0% | 81.3% | 92.3% |
| 1 | Provide informational materials about health and safety at work to educate employees in most departments | 60.0% | 64.0% | 46.9% | 53.8% |
| 1 | Include improving or maintaining job health and safety in the business objectives or organizational mission statement | 24.0% | 52.0% | 34.4% | 30.8% |

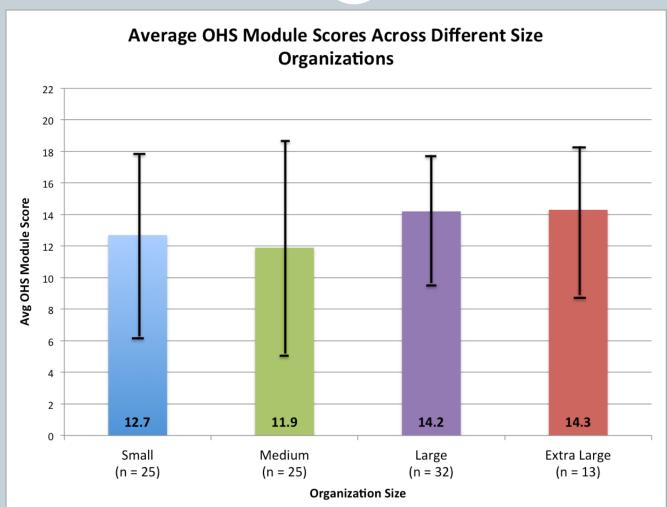


Total Score Distribution

$$o$$
 M = 12.6, SD = 6.2



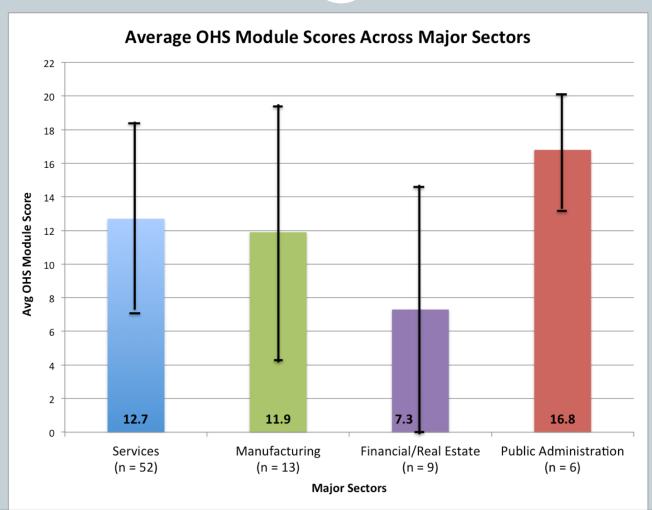






Note: ANOVAs n.s.

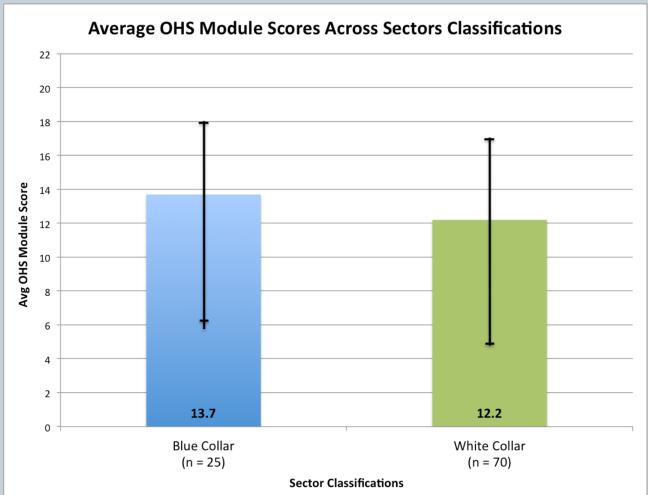






Note: ANOVAs n.s.







Note: ANOVAs n.s.

The Link Between OHS Scores & Perceptions

24

Is there a statistical association between organizational scores on the OHS module and employee perceptions of health and safety at their organizations?

- How safe do you think your workplace is?
 - o (1-10, extremely unsafe to extremely safe)
 - o N.S.
- How supportive is your company of your personal health?
 - o (1-10, extremely unsupportive to extremely supportive)
 - o N.S.
- Management considers workplace health and safety to be important.
 - o (1-4, Strongly disagree Strongly agree)
 - N.S.
- My organization encourages me to make suggestions about employee safety, health and well-being.
 - o (1-5, Strongly disagree Strongly agree)
 - \circ Correlation = .23 (p<.05)



Summary of Main Findings



- General OHS Score Trends
 - o Most organizations DO:
 - Encourage reporting injuries and near misses
 - Provide paid time off
 - Most organization DON'T:
 - Employ or contract an OHS professional
 - Coordinate OHS and health promotion
 - Include improving or maintaining health and safety in business objectives
 - Total scores widely distributed
- OHS total scores were not related to employee perceptions of health and safety.



Implications



- OHS Module: One Component of OHS Interventions
 - Starting point
 - Not a measure of employee perceptions or healthy and safety climate
- Represents Best Practices
 - Not a measure of the quality & impactfulness OHS programs
- Importance for Particular Sectors
 - o e.g. Construction vs. Financial
- Feasibility Varies by Organization Size
 - o e.g., Small vs. Extra Large



Suggested Next Steps



- Establish benchmarks
 - Different sectors and sizes
- Longitudinal studies on OHS interventions



Thank you!



QUESTIONS?



HTTP://WWW.UML.EDU/RESEARCH/CENTERS/CPH-NEW/

HTTP://WWW.CDC.GOV/DHDSP/PUBS/WORKSITE_SCOREC ARD.HTM



Appendix



- Data Cleaning Methods
- Table Organizational Size X Sector
- Table Item-level Frequencies
- Table Item-level Frequencies X Size



Data Cleaning



- 100 organizations participated
- Cases were included based on:
 - Completion of OHS module
 - Fewer than 50% missing responses
- Final sample
 - o 95 organizations, 5,451 employees
 - Average participation rate 56.8%, ranged from (9.3% 98.9%)



Organizational Size X Sector

39

| | Small (1-49) | Medium (50-99) | Large (100-249) | Extra Large (250+) |
|-------------------------|-----------------|-------------------|--------------------|--------------------|
| Blue Collar | | | | |
| Agriculture | 1 | 0 | 0 | 1 |
| Construction | 1 | 1 | 2 | 1 |
| Manufacturing | 2 | 3 | 8 | O |
| Transportation | 0 | 1 | 0 | 1 |
| Wholesale | 2 | 0 | 1 | 0 |
| White Collar | | | | |
| Retail | 1 | 1 | 0 | 1 |
| Financial / Real Estate | 1 | 3 | 5 | О |
| Services | 17 | 14 | 15 | 6 |
| Public Administration | 0 | 2 | 1 | 3 |

N=95



| Point Value | Item | Yes | No |
|----------------|---|-------|-------|
| 3 | Provide opportunities for employee input on hazards and solutions | 57.9% | 42.1% |
| 3 | Have a program to investigate the causes of injuries or illnesses | 65.3% | 34.7% |
| 3 | Encourage reporting of injuries and near misses | 86.3% | 13.7% |
| 3 | Employ or contract for an occupational health and safety professional | 42.1% | 57.9% |
| 2 | Provide all new workers formal, comprehensive training on how to avoid accidents or injury on the job | 54.7% | 45.3% |
| 2 | Have a written injury and/or illness prevention program | 52.6% | 47.4% |
| 2 | Coordinate programs for occupational health and safety with programs for health promotion and wellness | 20.0% | 80.0% |
| 1 | Provide paid time off (PTO) for days or hours due to illness of employees or dependents (full-time, non-exempt employees) | 75.8% | 24.2% |
| 1 | Provide paid vacation time or personal days or hours to full-time (non-exempt employees) | 86.3% | 13.7% |
| 1 | Provide informational materials about health and safety at work to educate employees in most departments | 55.8% | 44.2% |
| 1 | Include improving or maintaining job health and safety in the business objectives or organizational mission statement | 35.8% | 64.2% |

OHS Module Item-Level Frequencies X Sector Category

| Point Value | Item | Blue Collar N=25 | White Collar N=70 |
|----------------|---|---------------------|----------------------|
| 3 | Provide opportunities for employee input on hazards and solutions | 57.9% | 42.1% |
| 3 | Have a program to investigate the causes of injuries or illnesses | 65.3% | 34.7% |
| 3 | Encourage reporting of injuries and near misses | 86.3% | 13.7% |
| 3 | Employ or contract for an occupational health and safety professional | 42.1% | 57.9% |
| 2 | Provide all new workers formal, comprehensive training on how to avoid accidents or injury on the job | 54.7% | 45.3% |
| 2 | Have a written injury and/or illness prevention program | 52.6% | 47.4% |
| 2 | Coordinate programs for occupational health and safety with programs for health promotion and wellness | 20.0% | 80.0% |
| 1 | Provide paid time off (PTO) for days or hours due to illness of employees or dependents (full-time, non-exempt employees) | 75.8% | 24.2% |
| 1 | Provide paid vacation time or personal days or hours to full-time (non-exempt employees) | 86.3% | 13.7% |
| 1 | Provide informational materials about health and safety at work to educate employees in most departments | 55.8% | 44.2% |
| 1 | Include improving or maintaining job health and safety in the business objectives or organizational mission statement | 35.8% | 64.2% |

| Point Value | Item | Small | Medium | Large | X Large |
|----------------|---|-------|--------|-------|---------|
| 3 | Provide opportunities for employee input on hazards and solutions | 76.0% | 48.0% | 53.1% | 53.8% |
| 3 | Have a program to investigate the causes of injuries or illnesses | 68.0% | 60.0% | 59.4% | 84.6% |
| 3 | Encourage reporting of injuries and near misses | 88.0% | 88.0% | 78.1% | 100.0% |
| 3 | Employ or contract for an occupational health and safety professional | 32.0% | 36.0% | 46.9% | 61.5% |
| 2 | Provide all new workers formal, comprehensive training on how to avoid accidents or injury on the job | 48.0% | 60.0% | 50.0% | 69.2% |
| 2 | Have a written injury and/or illness prevention program | 52.0% | 56.0% | 50.0% | 53.8% |
| 2 | Coordinate programs for occupational health and safety with programs for health promotion and wellness | 28.0% | 16.0% | 21.9% | 7.7% |
| 1 | Provide paid time off (PTO) for days or hours due to illness of employees or dependents (full-time, non-exempt employees) | 76.0% | 76.0% | 71.9% | 84.6% |
| 1 | Provide paid vacation time or personal days or hours to full- time (non-exempt employees) | 92.0% | 84.0% | 81.3% | 92.3% |
| 1 | Provide informational materials about health and safety at work to educate employees in most departments | 60.0% | 64.0% | 46.9% | 53.8% |
| 1 | Include improving or maintaining job health and safety in the business objectives or organizational mission statement | 24.0% | 52.0% | 34.4% | 30.8% |

Criteria for Size Definition

43

- Based on the Affordable Care Act
- Small: 1-49 employees
- Medium: 50-99 employees
- Large: 100-249 employees
- Extra Large: 250+ employees

| Size | N |
|--------------------|----|
| Small (1-49) | 25 |
| Medium (50-99) | 25 |
| Large (100-249) | 32 |
| Extra Large (250+) | 13 |

