

August 20 - 23, 2019 PARIS LAS VEGAS HOTEL

Understanding Total Worker Health WS3 – Tuesday, August 20, 2019

Drew Bossen, PT, MBA

Tony Silva, CPE

Kris Corbett, Wellness Specialist

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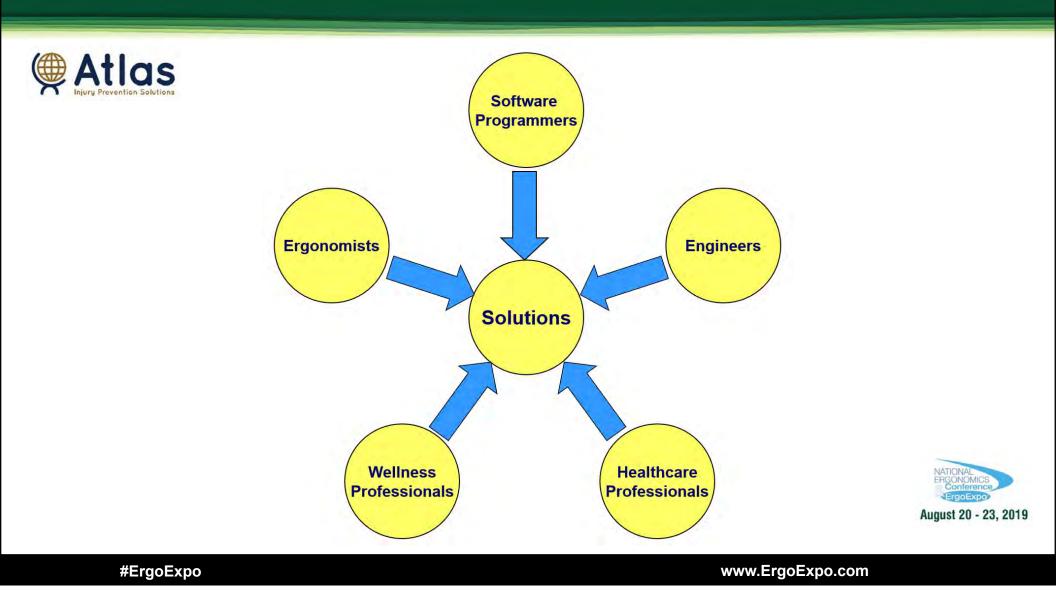
Today's Agenda...

Intro

- Who we are...
- What we do...
- Total Worker Health
 - Wellness...
 - Ergonomics...
 - Injury Prevention...
- Overriding Themes For You To Consider
 - Where do you and your organization fit into this model and these actions...
 - How can these considerations add value to your organization...



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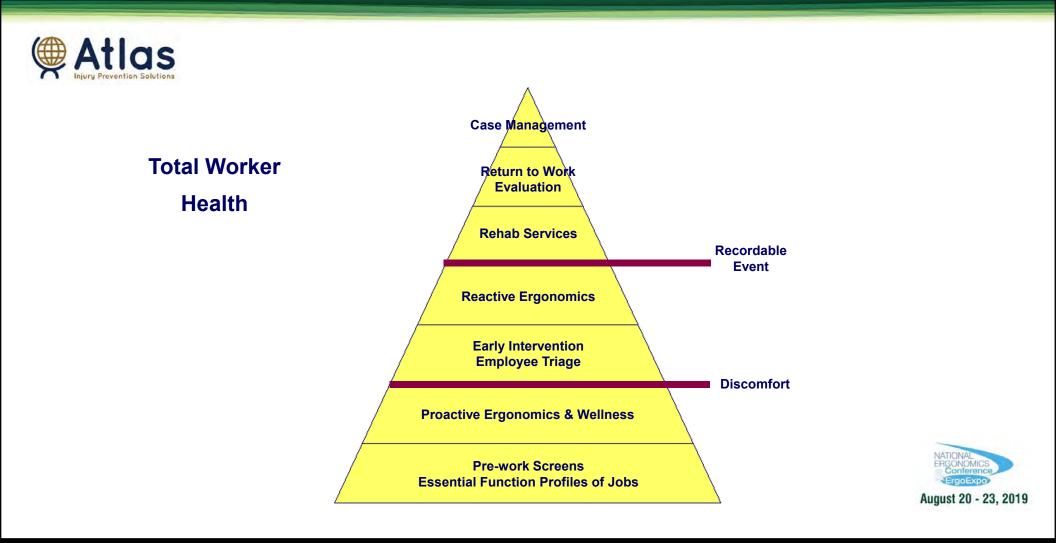
Nationwide Network of Service Providers

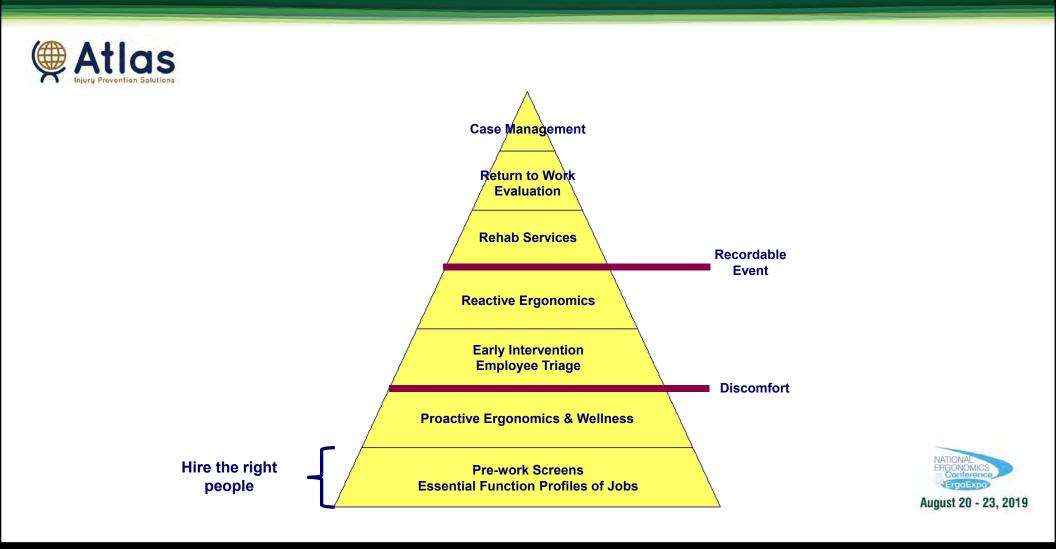
15,000 + cities covered

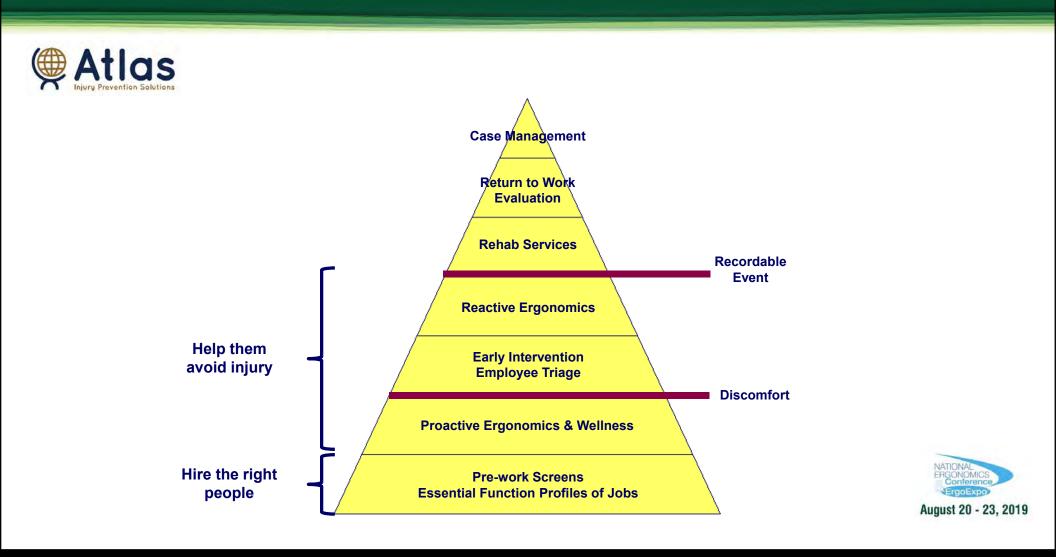


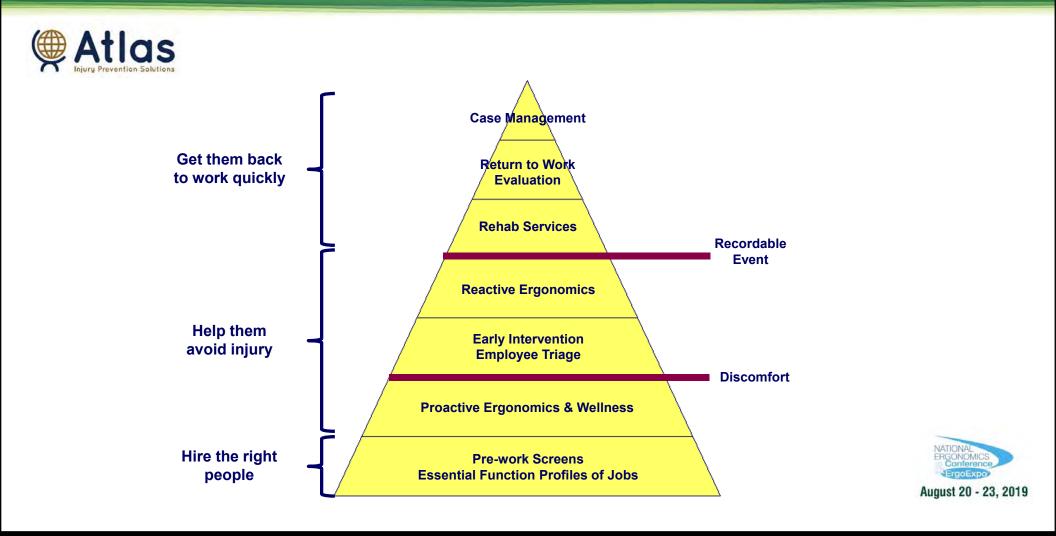
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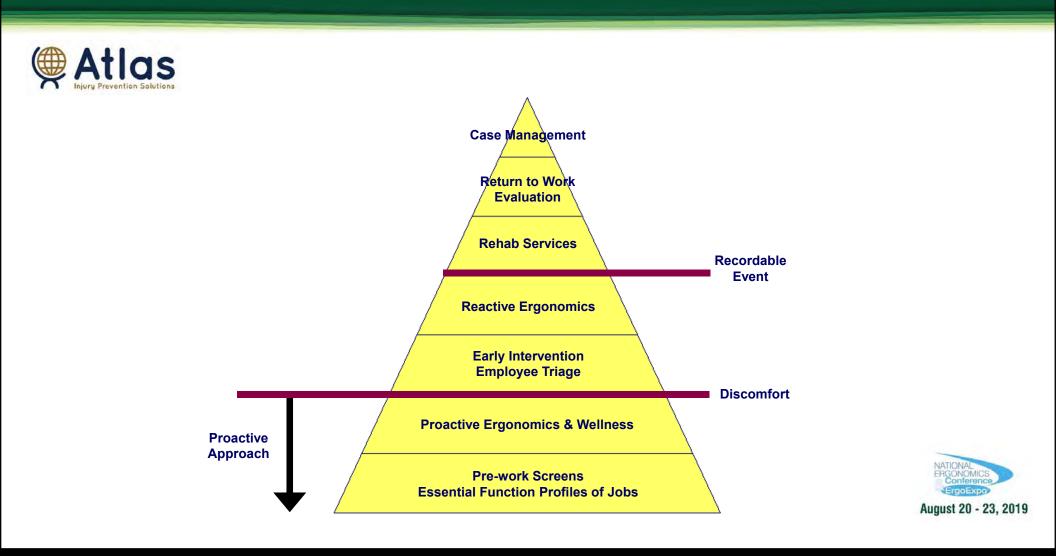


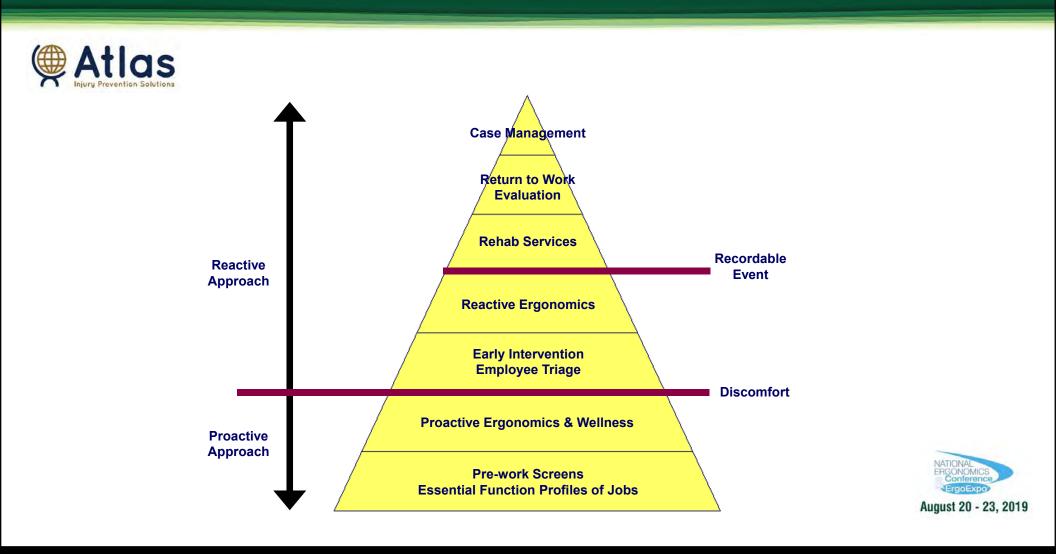


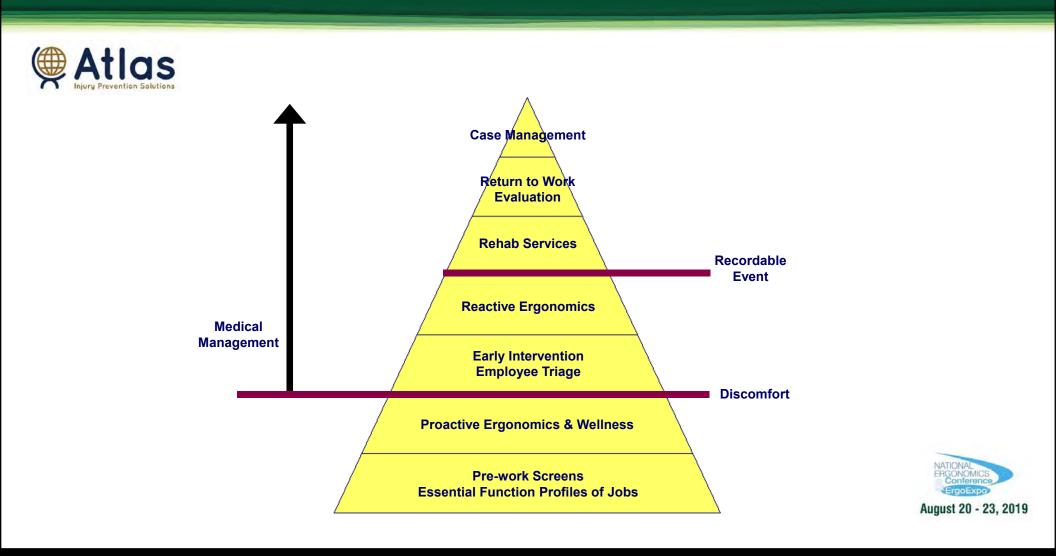


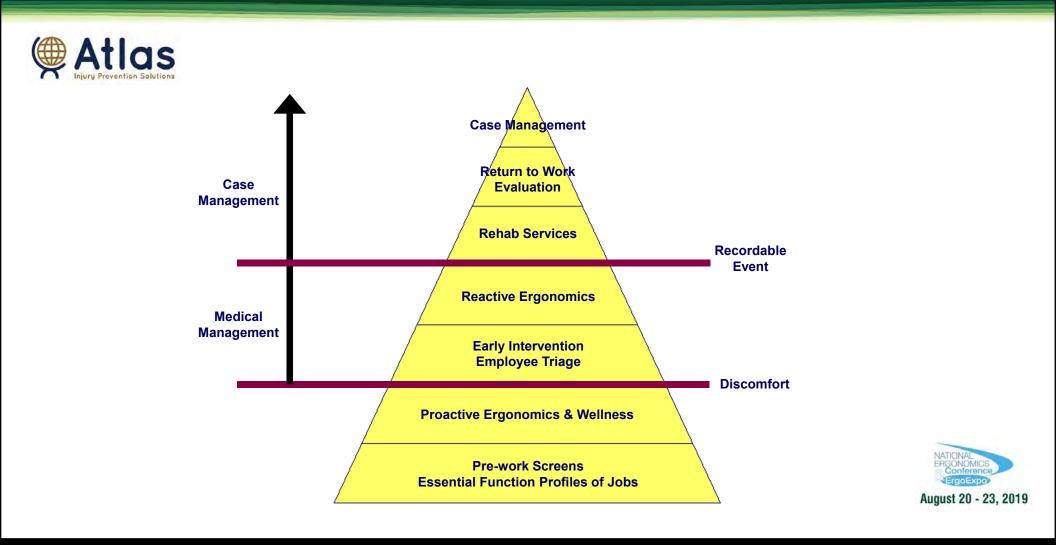




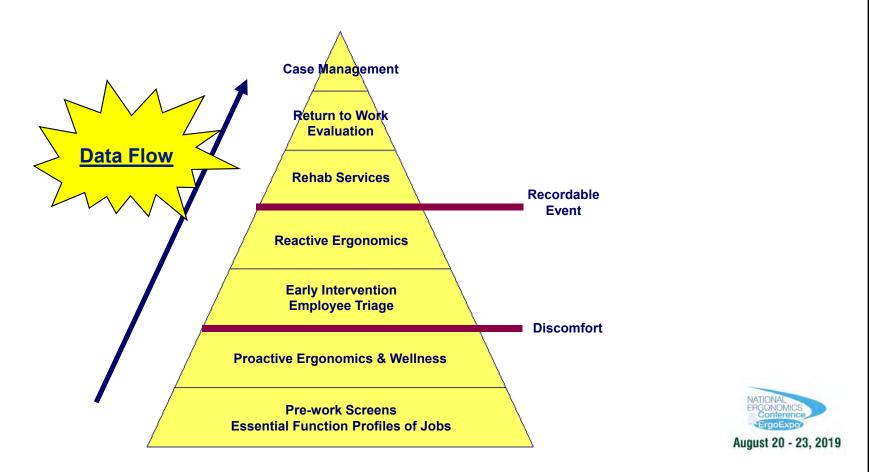














Kris Corbett

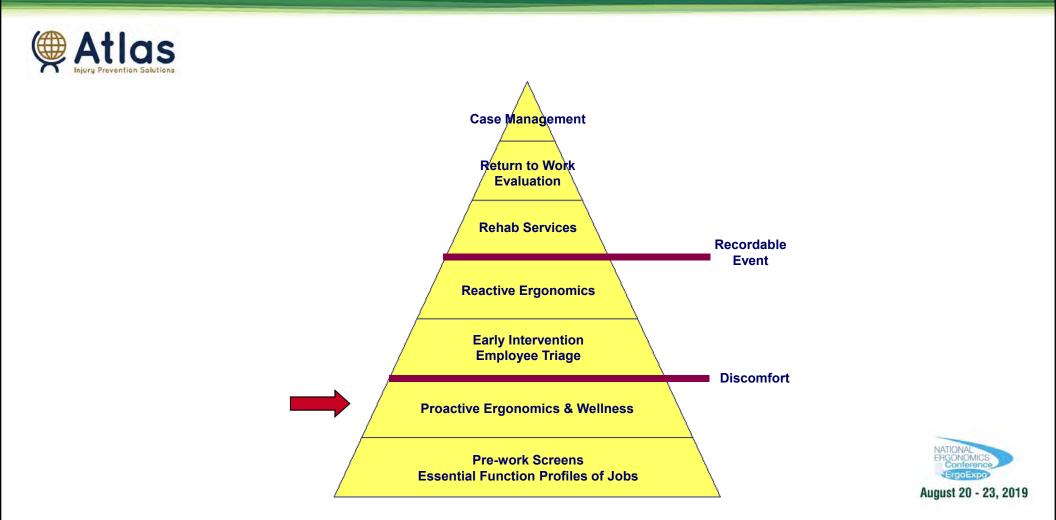
• Kris Corbett, BS, CSCS

Kris has over 25 years of experience working in wellness, safety and injury prevention creating innovative and effective products and services for companies looking to achieve sustainable results. Her knowledge and experience is in Manufacturing and Construction.





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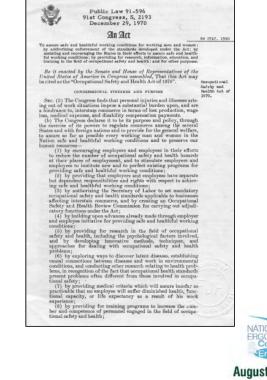




NIOSH: Total Worker Health™

NIOSH is dedicated to preserving and enhancing the TOTAL HEALTH OF WORKERS

OSHA Act of 1970. SEC. (2) (b) . . . to assure so far as possible every working man and woman in the Nation safe and healthful working conditions and *to preserve our human resources . . .*

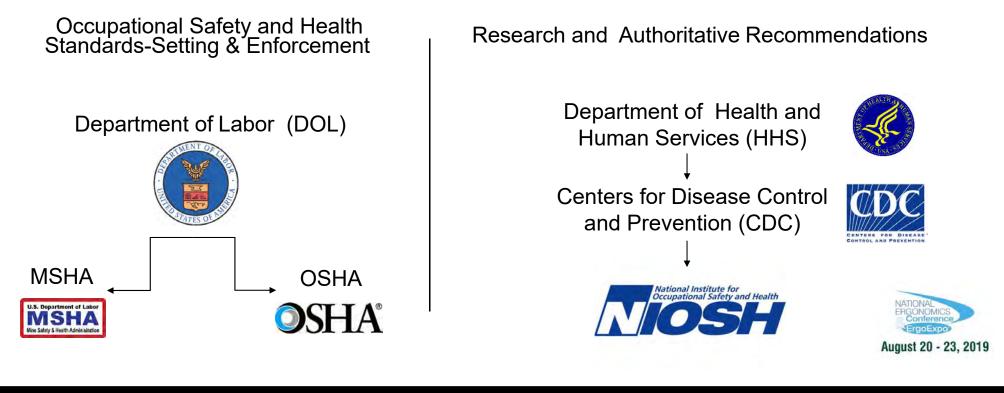




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Federal Government & Worker Health



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What is Total Worker Health[™]?

Policies, programs, & practices that integrate protection from work-related safety & health hazards with promotion of injury & illness prevention efforts to advance worker well-being





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NIOSH - Approach

What's impacting workers' health & safety?

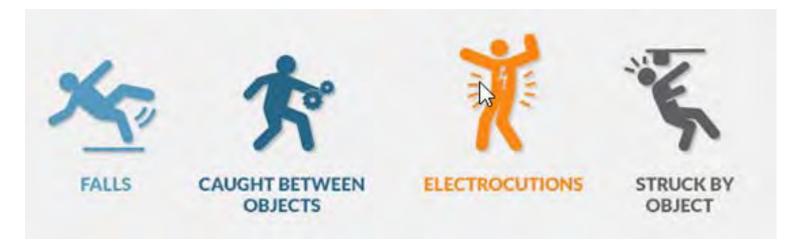




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OSHA: Fatal Four





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Occupations with high fatal work injury rates Fishers and related fishing workers 41 99.8 Logging workers 84.3 55 59 Aircraft pilots and flight engineers 48.6 91 45.2 Roofers Total fatal work injuries = 5,147 Refuse and recyclable material collectors 30 35.0 All worker fatal injury rate = 3.5 Structural iron and steel workers 33.4 14 Driver/sales workers and truck drivers 981 26.8 Farmers, ranchers, and other agricultural 258 24.0 managers First-line supervisors of landscaping, lawn 21.0 53 service, and groundskeeping workers Electrical power-line installers and repairers 26 18.7 750 100 1,000 500 250 Ó. 50 150

Number of fatal work injuries



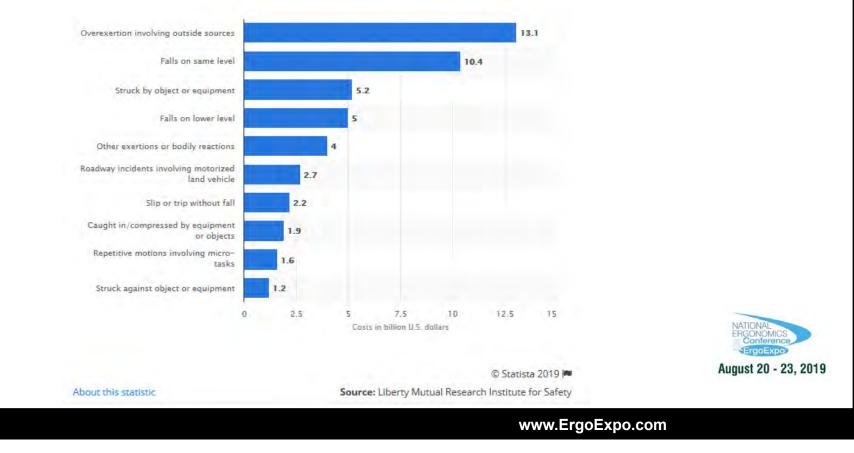
(per 100,000 full-time equivalent workers)

Fatal work injury rate

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Top 10 most disabling work injuries & direct costs (billions)



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	MINDFUL SAFETY MOMENT
STOP	Stop Take a breath Observe your surroundings Proceed with awareness







What am I about to do?

What tools do I need?

How could I get hurt?

What will I do to protect myself and others?



Be MINDFUL before you act

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US Burden of work-related illness, injury and death

\$250,000,000,000 Annual cost of work-related illness, injury and fatality.



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What's impacting workers' health & safety?





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Chronic Disease

The leading cause of death and disability and leading drivers of the Nations 3.3 Trillion in annual healthcare costs.

- 6 in 10 adults in the US have a chronic disease
- 4 in 10 adults in the US have two or more chronic diseases







Chronic Disease

The leading cause of death and disability and leading drivers of the Nations 3.3 Trillion in annual healthcare costs.

- 1. Heart Disease & Stroke
- 2. Diabetes
- 3. Cancer
- 4. Obesity



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Heart Disease and Stroke

- 1 IN 3 DEATHS or more than 859,000 people each year.
- \$214 BILLION in health care system costs.
- \$137 BILLION in lost productivity on the job from premature death.







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Diabetes

- More than 30 million people in the United States have diabetes
 - 1 in 4 of them don't know they have it.
- More than 84 million US adults—1 in 3—have prediabetes
 - 90% of them don't know they have it.
- In 2017, the total estimated cost of diagnosed diabetes was \$327 billion







Cancer

- Cancer is the second leading cause of death in the United States, but
 many kinds of cancer can be prevented or caught early.
- Leading risk factors for preventable cancers are smoking, getting too much UV radiation from the sun or tanning beds, being overweight or having obesity, and drinking too much alcohol.
- The cost of cancer care is expected to reach almost \$174 billion by 2020.







Obesity (disease/risk factor)

Obesity is common, serious and costly

- The prevalence of obesity was 39.8% and affected about 93.3 million of US adults in 2015~2016
- The estimated annual medical cost of obesity in the United States was \$147 billion in 2018 US dollars; the medical cost for people who have obesity was \$1,429 higher than those of normal weight.





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ORIGINAL ARTICLE

Contribution of health status and prevalent chronic disease to individual risk for workplace injury in the manufacturing environment

Jessica Kubo,¹ Benjamin A Goldstein,¹ Linda F Cantley,² Baylah Tessier-Sherman,² Deron Galusha,² Martin D Slade,² Isabella M Chu,³ Mark R Cullen³

¹Quantitative Sciences Unit, Stanford University School of Medicine, Stanford, California, USA ²Yale Occupational & Environmental Medicine, Yale School of Medicine, New Haven, Connecticut, USA ³General Medical Disciplines, Stanford University School of Medicine, Stanford, California, USA

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Received 7 June 2013 Revised 6 September 2013 Accepted 13 September 2013 Published Online First 16 October 2013 After adjusting for potential confounders, presence of these diseases was significantly associated with increased hazard of injury: heart disease (HR 1.23), diabetes (HR 1.17), depression (HR 1.25) and asthma (HR 1.14).

 Our results suggest that chronic heart disease, diabetes and depression confer an increased risk for acute occupational injury. Employees

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experience on the job as a covariate. **Results** One-third of employees had at least one of the diseases during the study period. After adjusting for potential confounders, presence of these diseases was associated with increased hazard of injury: heart disease (HR 1.23, 95% CI 1.11 to 1.36), diabetes (HR 1.17,

95% CI 1.08 to 1.27), depression (HR 1.25, 95% CI

associated with increased hazard of injury: heart disease (HR 1.23), diabetes (HR 1.17), depression (HR 1.25) and asthma (HR 1.14).

 Our results suggest that chronic heart disease, diabetes and depression confer an increased risk for acute occupational injury. Employees may benefit from strategies to reduce chronic



NIOSH - Approach

How do we make an impact on TWH





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Deadly Threats – Health Risk Behaviors



Alcohol and Drugs



Stress and Depression



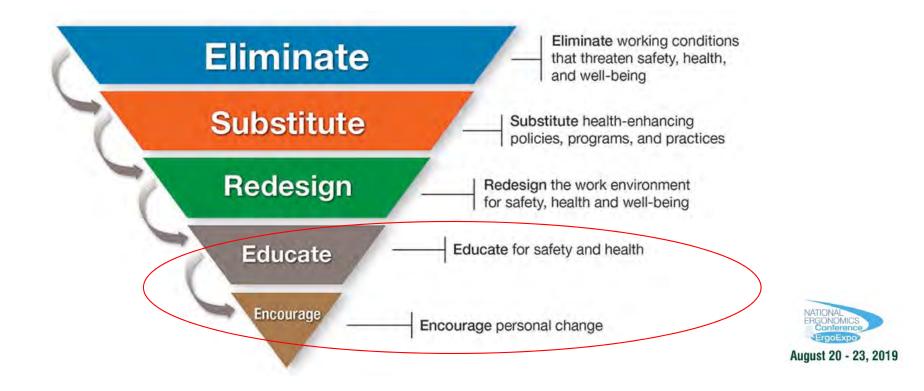
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Smoking



Hierarchy of Controls: TWH



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Workplace Wellness TWH Solutions

Break down the silo's

- Safety policies and procedures
- Wellness policies and procedures

Individually focused behavioral change programs is not enough

- Fitness Center
- Wellness Portals





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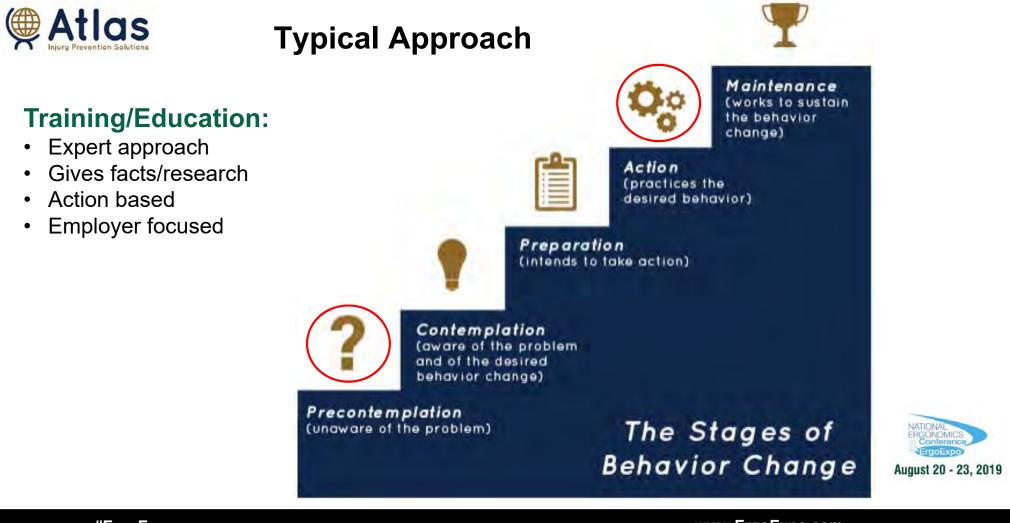
Research: Why most programs fail?

- Lack of Consistency
- Employer focused (reduce costs, increased productivity).
- Individually focused programs are not enough
- Engage/Coach for behavioral change



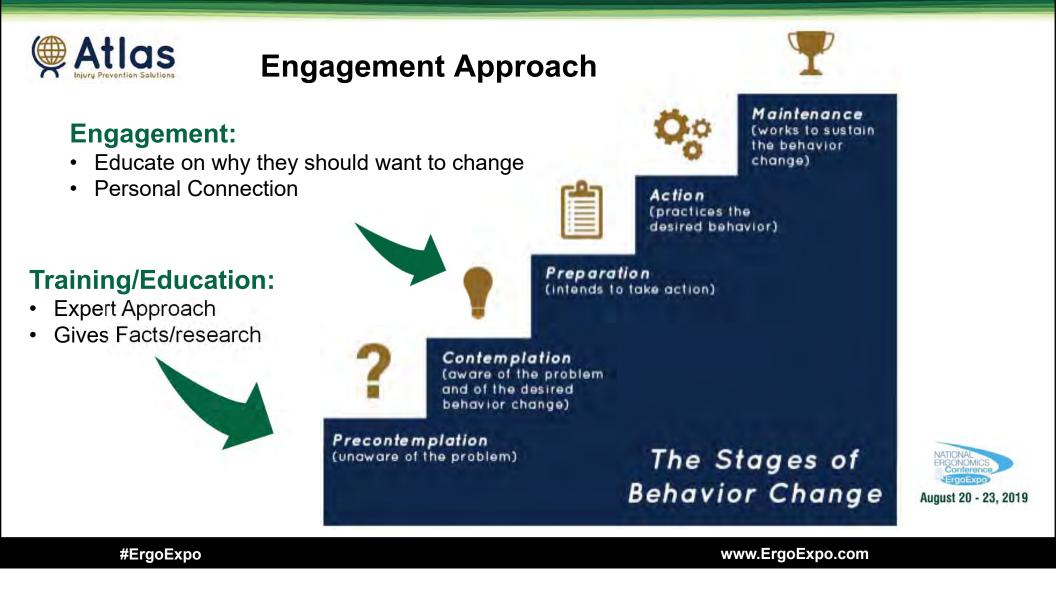






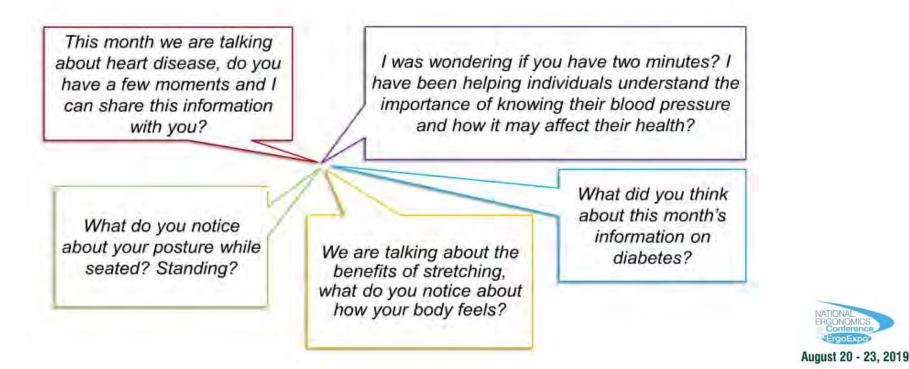
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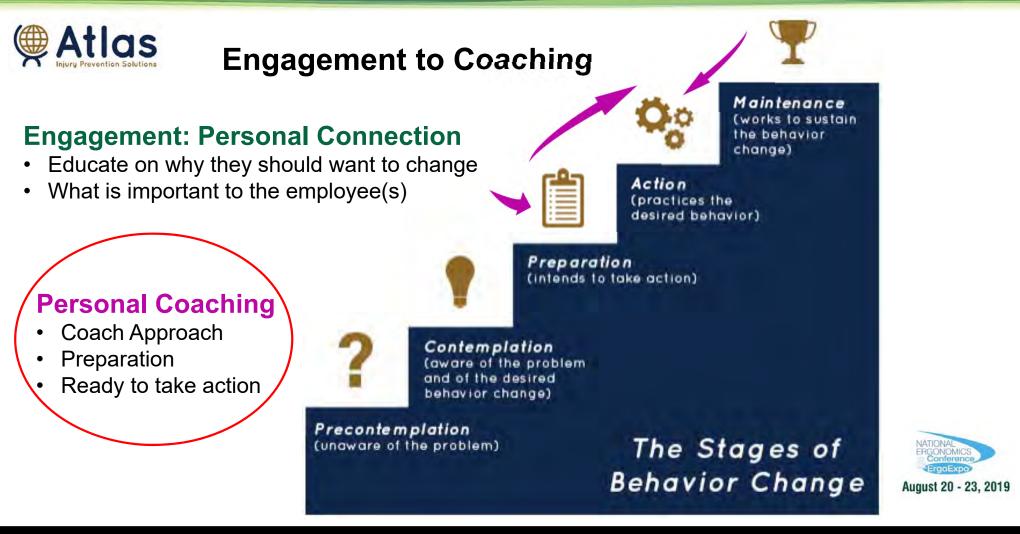




Engagement Coaching



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Keys to Success

Engaging employees

- Implement employee-centered vs expert-centered approach.
- Give employees a voice
- Help employees explore personal meaning and value

Build into culture

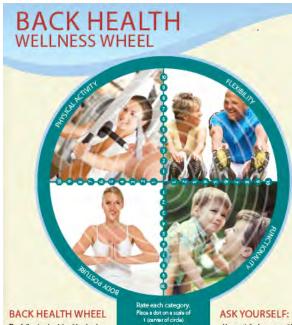
- Break down the silos
- Wellbeing vs Wellness



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Atlas Total Worker Health Examples



to 10 (outside of circle).

10 – Completely Satisfied. You are completely satisfied with where you are at this point in your life.

5 = Middle of the Road.

It is OK, but there are changes

that you could make here.

1 – Completely Dissatisfied. You would be much happier if

ing about this.

BACK HEALTH WHEEL

The following back health wheel will help you get a comprehensive picture of your back health. Achieving optimal back health can have a major impact on your overall wellness and life satisfaction. Success depends on your lifestyle choices and your commitment in these four areas: Physical Activity, Flexibility, Body Posture, and Functionality.

ASK YOURSELF:

· How satisfied are you with your back health? Which areas contribute to or detract from your overall satisfaction? In which area(s) do you want to make changes?

SCORING

After you rate each category, connect the dots. If the lines were a wheel, how bumpy would the ride

DESCRIPTION OF CATEGORIES

PHYSICAL ACTIVITY:

What do you do to stay physically fit? Consider aerobics, strength training, sports, and recreational activity. How fit are you?

FLEXIBILITY:

What do you do to maintain flexibility? Consider stretching, yoga, sports, and variety in movement throughout the day. How flexible are you?

BODY POSTURE:

How healthy is your posture? Consider how often you are mindful of your posture, how often you practice proper body mechanics, and the degree to which your posture affects your back health.

FUNCTIONALITY:

Can you do the things you like to do? Consider the degree to which your back health is interfering with your daily activities. Consider the degree of your pain. In what ways would your life be different if your back was more healthy?

UNDERSTANDING YOUR WHEEL

CONSIDER THE FOLLOWING QUESTIONS:

· How are the imbalances depicted in the wheel affecting your back health?

. How are the imbalances affecting other areas of your life? . Which area is most important to you? Why?

· Changes in which area(s) do you feel would most impact your back health and your life in a positive way? What changes are you interested in making right now or in the near future?





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Atlas Total Worker Health Examples



Do any of the scenarios below sound like something you have ever done?

- Driven down the highway and missed your exit
- Forgotten your password to a security site
- Opened a fresh bag of chips to find it empty minutes later
- Stayed up all night thinking about tomorrow's to-do's
- Felt so stressed that you could feel your muscles tense
- Felt like you were trying to do too many things at once

Over time, situations like these can affect your health. Read on to learn more about the benefits of mindful living.

WHAT DOES MINDFULNESS HAVE TO DO WITH HEALTH?

Living Without Mindfulness May:

- Increase your stress levels
- Cause physical symptoms, like headache, nausea, muscle tension, and weakness
- · Cause you to ignore pain signals
- Cause you to be less focused and more prone to injury
- Cause you to be less aware of your body's abilities and limitations
- Cause you to miss important information or instructions
- Make it harder to break unhealthy habits
- Increase the likelihood that you will choose unhealthy habits



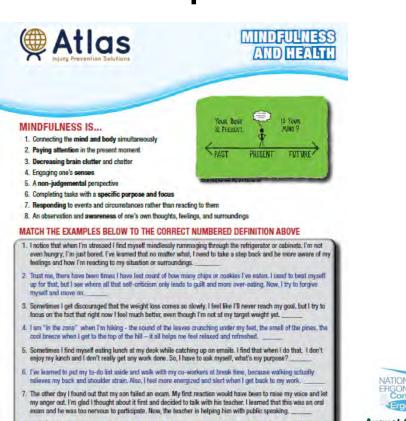
Atlas

Mindful

Living <u>With</u> Mindfulness May:

Mind Full?

- Help you recognize and manage stress symptoms
- Help you avoid or manage unpleasant and harmful physical symptoms
- Help you recognize and address pain signals
- Help you focus and complete tasks on time and without mistakes
- Improve your mind-body connection and increase your coordination and physical performance
- Help you consider all options and make informed decisions
- · Make it easier for you to break unhealthy habits
- Help you respond rather than react to better manage your health habits





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What is Mindfulness?

The awareness that emerges through paying attention on purpose in the present moment.





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What is Mindlessness?

Habitual, automatic, repetitious behaviour generally brought on by multi-tasking, familiarity or impulse





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What can occur with Mindlessness?





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Highway Hypnosis?





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Mindless Eating?

Boredom

Distraction

Emotional





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Multi-tasking?

Steals Time

Mental Health

Quality

Accuracy





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Stress?





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Risk of Injury ?











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Atlas Total Worker Health Examples

Month	Quarterly Theme	Educational Interactions	Coach Events Ideas	Fitness Center/Special Event	Safety/Ergo Coaching Presentations
January	Heart Health Nutrition	New Year Resolutions	Hydration Stations Know Your Numbers Activity Health Vending Promotion	Fitness Center Promotion New Year Challenge Massage(Monthly)	Your Work Readiness Plan
February		Wellness Score Card – Health Assessment Tool			Mindful Movement Overview Tunnel of Movement Task Specific Training Postures, Body Mechanics, Ergonomics and injur- prevention
March		National Nutrition Month			
April	Spring Into Fitness	Interval Training	Check My Form: Exercise Game Know Your Max Heart Rate Exercise Promotion	Fitness Center Recognition Program Launched (See examples on page 2) Massage (monthly)	Mindful Movement "Foot/Ankle"
Мау		How are you doing? Exercise			
June		Injury Prevention Newsletter – Muscle Matters			Mindful Movement "Back"
ylut	Sleep Mindfulness	Worker Fatigue/Sleep	Sleep Family Health Fair	Stretching Class Mindful Meditation Yoga Promo Massage[Monthly]	Mindful Movement "Hand/ Wrist"
August		Mindfulness & Health			Mindful Movement "Neck/Shoulders"
September		Mindfulness and Energy			
October	Stress Less	Weilness Score Card – Stress	Maintain Don't Gain – Weight Loss Program	Stress Less Holiday Recipe Exchange Massage (Monthly)	Mindful Movement Review "Putting it all together"
November		6 Pillars of Managing Change			
December		Stress Relief Tips			



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Tony Silva

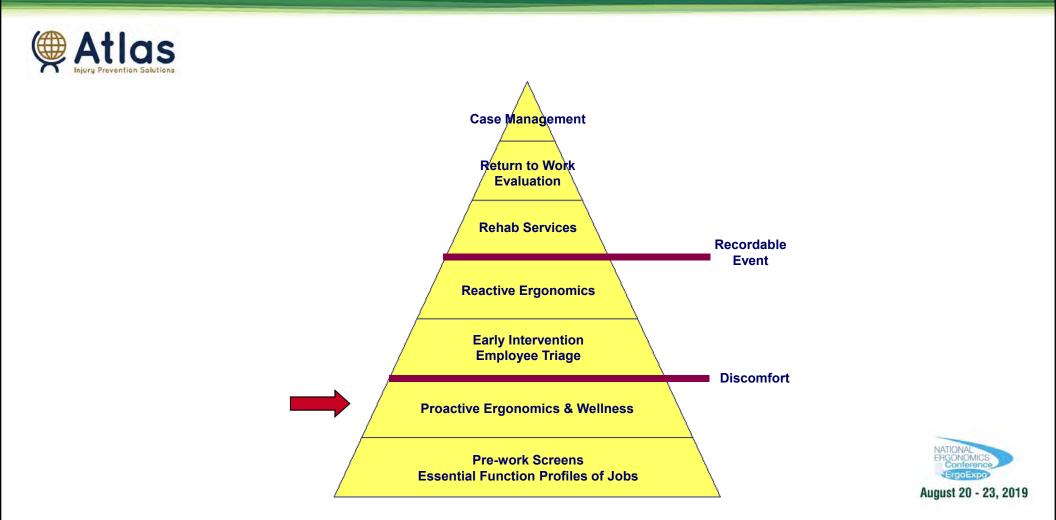
• Tony Silva, CPE, BSC

A Certified Professional Ergonomist with 15+ years of experience helping companies achieve bottom-line results through improved ergonomics. Tony's knowledge and experience is in ergonomics program development, communication and implementation, with specialization in the integration of ergonomics into existing business practices such as Lean Manufacturing and Six Sigma.





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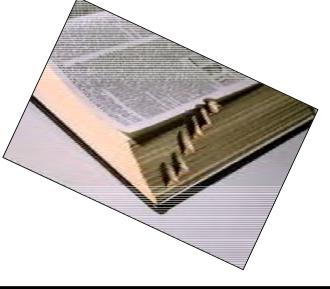


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Definition of Ergonomics...

- Ergonomics is the scientific discipline concerned with the understanding of interactions among humans and other elements of a system, and the profession that applies theory, principles, data and methods to design in order to optimize human well-being and overall system performance.
- International Ergonomics Association

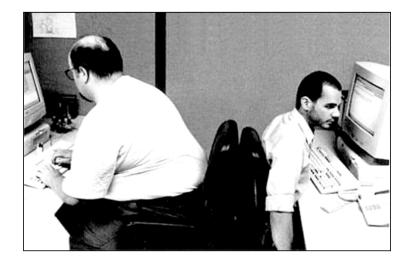




Definition of Ergonomics...

Fitting the task to the person

✓ Keep people safe, comfortable, and productive while they perform tasks at work and home.





What is Total Worker Health®?

Policies, programs, & practices that integrate protection from work-related safety & health hazards with promotion of injury & illness prevention efforts to advance worker well-being





Optimize Human Performance...



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Industrial Athlete...

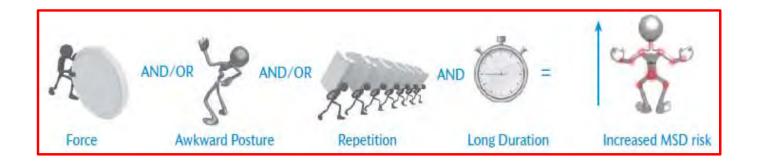


- Hours per game vs. hours per shift
- Games per week vs. shifts per week
- Weeks per year
- Years in a career





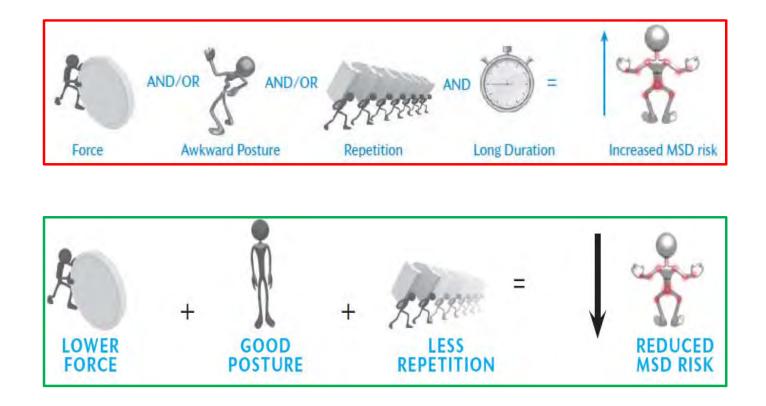
Primary Ergonomics Hazards...



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Primary Ergonomics Hazards...



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Productivity and Quality Improvement...

Where ergonomics and Lean Manufacturing meet...



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8 Kinds of Waste & Ergo...

- The 8 Wastes
 - Overproduction, Inventory, Transportation, Over Processing, Rework, Motion, Waiting, Underutilizing People



8 Kinds of Waste & Ergo...

- The 8 Wastes
 - > Overproduction, Inventory, Transportation, Over Processing, Rework, Motion, Waiting, Underutilizing People
- Biggest one for Ergonomics is Wasted Motion
 - Wasted motion impacts productivity



8 Kinds of Waste & Ergo...

- The 8 Wastes
 - > Overproduction, Inventory, Transportation, Over Processing, Rework, Motion, Waiting, Underutilizing People
- Biggest one for Ergonomics is Wasted Motion
 - > Wasted motion impacts productivity
- In Ergonomics we work to reduce:
 - > Reaching
 - > Bending
 - > Walking



Proven Methodology...

- Recognize
- Evaluate
- Control



Recognize...

- Quickly find and fix obvious ergonomic hazards
- Use tools that are easy to apply in the field and on the shop floor
 - > Observation Forms
 - > Toolbox talks
 - > Washington States Caution and Hazard Zone checklists



Behavior Observation Form...

(♥ Atlas	Ergonomics Obs	ervation	Form	1			
ob Rei pro	Check the "Good" and "Bad" that is served while performing the job/ task. inforce the "Good" behaviors and ovide coaching/recommendations for the ad".	Name: Observer:	Department: Job/Task:				Date:	# of employees who perform this job/task:
Po	stures	and the second second		_			and the second second	
	GOOD	BAD	EXAMPLES				Observation/Recommendat	n/Recommendation
Back	 Back straight Maintain lumbar curve Pivot at the hips Move feet (don't twist) 	 Back bent forward Back bent backward Back sideways or twisted 	J.	P	Ĩ			
Shoulder	 Hand(s) below the shoulder Elbow(s) close to the body 	 Hand(s) above the shoulder Elbow(s) away from the body Arm(s) behind the body 	grand and a	6				
Neck	Head directly over the shoulders	 Neck bent forward Neck bent backward 	B	R	2	A		



SAFETY TALK - Lifting (One Hand) How to use the Safety Talk: The Safety Talk is designed to help drive a conversation and engage all associates in a discussion. Prepare yourself by thoroughly reviewing the safety talk prior to meeting with your team members. Be familiar with all of the "Good" and "Bad" items, the "Questions to Engage Discussion" and the "Red Dot Walk Engagement". Add any of your own examples that you believe could benefit your team. GOOD - Partial Squat Lift - Use for small light objects with handles close to knee height 1. Stand with the object close to your side. 2. Place your feet shoulder width apart, with one foot slightly ahead of the other. 3. Place one hand on a fixed surface (such as a table or stool) or on your thigh. 4. Keep your back straight, push your buttocks out and slowly lower yourself down to reach the object's handles. 5. Prepare for the lift: grasp the object and look forward. 6. For support as you lift, push down on the fixed surface (or on your thigh). 7. Lift upwards following your head and shoulders. Lift by extending your legs with your back straight, your buttocks out, and breathe out as you lift. GOOD - Golfers Lift - Use for small light objects in deep bins and to pick small objects off the floor. Recommended for people with knee problems who cannot do a deep squat. 1. Place hand near the edge of a fixed surface (such as the edge of a table or bin). This hand will support your upper body during the lift. 2. Keep your back straight and raise one leg straight out behind you as you lean down to pick up the object. The weight of your leg will counterbalance the weight of your upper body. Grasp the object firmly. 4. Prepare for the lift: look forward. Keep your leg raised as you initiate the lift To lift, push down on the fixed surface as you lower your leg. Keep your 5 back straight and breathe out as you lift.

Toolbox Talks...

- Should include questions to engage discussion
- E.g., provide a work example of a one-handed lift

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WISHA Caution Zone Checklist...

Movements or postures that are a regular and oreseeable part of the job, occurring more han one day per week, and more frequently han one week per year.	If done in this job position	Job Position evaluated: Date:	No. of employees in these jobs?	
Awkward Posture		Comments/Observations		
1. Working with the hand(s) above the head, or the elbow above the shoulders more the 2 hours total per day.				
2. Working with the neck or back bent more than 30 degrees (without support and without the ability to vary posture) more than 2 hours total per day.				
3. Squatting more than 2 hours total per day.				
4. Kneeling more than 2 hou total per day.				
High Hand Force	Comments/Observations			
5. Pinching an unsupported				

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- Does the tool validly predict the risk of MSD injury?
- Does the tool apply in my work environment e.g., long cycle jobs
- Which jobs pose the greatest risk?
- How much is too much?
- How can I show improvements were made?
- How can I document our efforts? (OSHA)





Ergonomics Risk Assessment...

- Right tool for the job
- AIHA Ergo Assessment Toolkit
- <u>https://www.aiha.org/get-</u> involved/VolunteerGroups/Documents/ERGOVG-Toolkit_rev2011.pdf
- Flowchart to help select the right tool





AIHA ERGONOMIC COMMITTEE

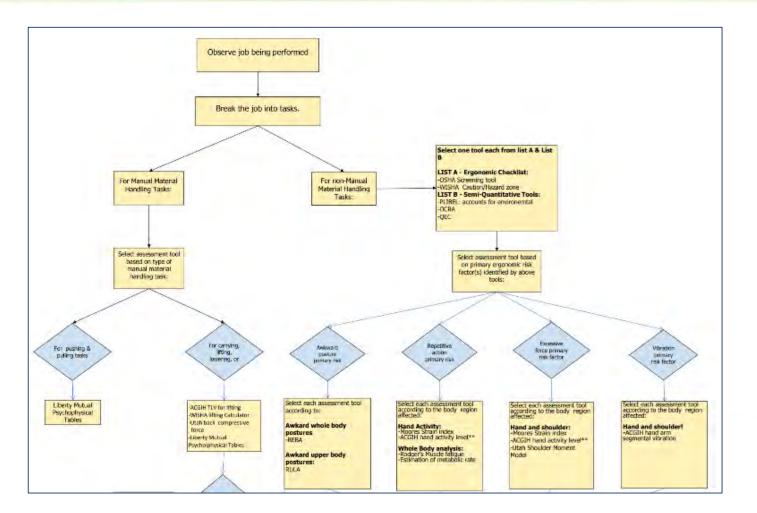
Ergonomic Assessment Toolkit



American Industrial Hygiene Association

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Control...

- Root cause identification
- Recommendation development
- Cost justification

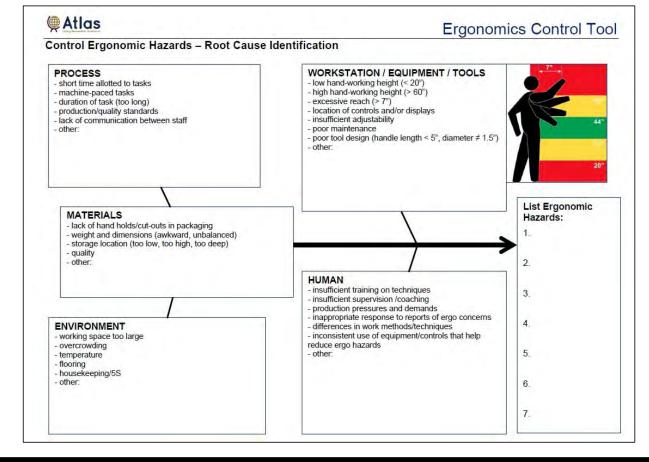


Root Cause Determination...

- Examine the ergonomic assessment results
- Determine what body part is at the greatest risk
- Determine what hazards contribute most to the risk of injury e.g., posture, force, repetition
- Brainstorm and list causes that contribute to the presence of risk factors e.g., product on the floor, operator not following SOP, etc.



Fishbone Diagram...

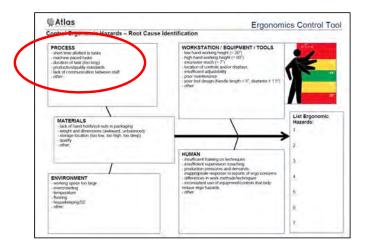


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Process...

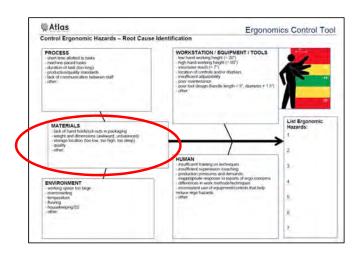
- Lack of hand holds/cut-outs in packaging
- Machine-based task
- Duration of task (too long)
- Production / quality standards
- Lack of communication between staff





Materials...

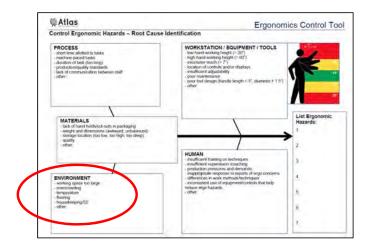
- short time allotted to task
- weight and dimensions (awkward, unbalanced)
- storage location (too low, too high, too deep)





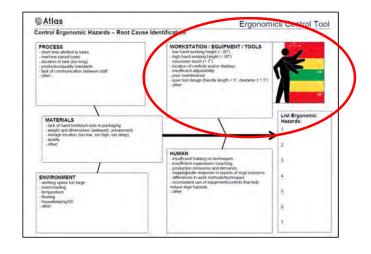
- Working space too large
- Over crowding
- Temperature
- Flooring
- Housekeeping / 5S







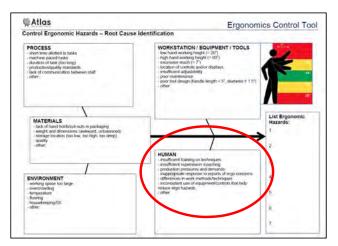
Workstation / Equipment / Tools...



- Low hand-working height
- High hand-working height
- Excessive reach
- Location of controls and/or displays
- Poor maintenance
- Poor tool design (handle length < 5", diameter \neq 1.5")
- Heavy tool weight (> 8 lbs. power tool, > 2 lbs. precision tool)



- Insufficient training on techniques
- Insufficient supervision /coaching
- Production pressures and demands
- Differences in work methods/techniques
- Inconsistent use of equipment/controls that help reduce ergo hazards



Human...



Root Cause Determination...

- Identify which causes are most likely to cause the problem (risk) and to have the biggest impact.
- Perform additional Root Cause Analysis for the leading causes.
- A simple Root Cause Analysis tool is 5 Why
 - > By continuing to ask "why" you will be able to get to the root cause
 - The root cause is the issue that if resolved will reduce or eliminate the risk of injury



Hierarchy of Controls...

- Elimination
- Engineering
- Administrative
- Work Practices
- Personal Protective Equipment (PPE)



Elimination...

- Eliminate the task completely and the ergonomic hazards associated with the job or task.
- Examples include:
 - > Automation
 - > Improved process/newer technology



Engineering Controls...

- Eliminate or significantly reduce ergonomic hazards associated with the job or task.
- Examples include:
 - > Adjustable workstations
 - Power tools
 - > Work stands
 - Lift tables



Administrative Controls...

- Regulate exposure to ergonomic stressors without making physical changes to the work area or work process.
- Examples Include:
 - Job Rotation
 - Job Enlargement
 - > Break Policies
 - Stretching Exercises



Work Practice Controls...

- Change the way employees perform job activities to reduce exposure levels.
- Examples include:
 - > Job specific methods training
 - > Workstation Features e.g., using adjustability



Personal Protective Equipment...

- Does little to eliminate the root cause of the concern
- Typically a band-aide when it comes to ergonomics





Anthropometry...

- Anthropos = human
- metron = a measure
- A discipline dealing with measurement on the human body





Design Principles...

- Design for Range
 - > design for 95% of the population
 - > accommodates most of your employees
- Design for Extremes
 - > tallest heights, accessibility
 - > shortest reaches, weights, forces, restrict access
- Design for Average
 - > accommodates few of your employees

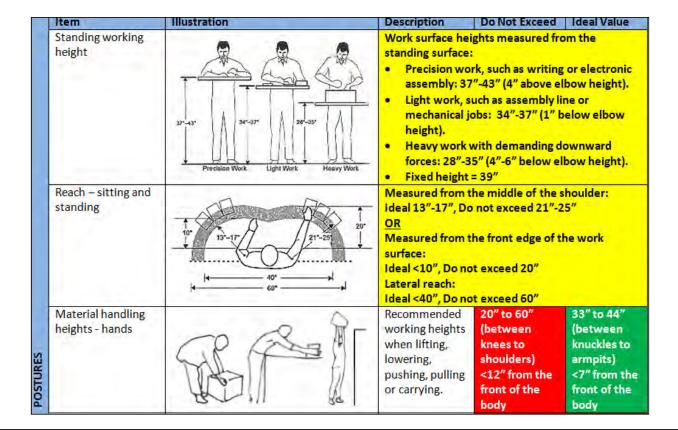


Ergonomic Design Standards...

- Focus on the critical few (80/20 rule)
- Often these areas:
 - Manual material handling
 - Standing workstations
- Use relevant anthropometric data
- Use in the selection and evaluation of new equipment and workstation designs



Ergonomic Design Standards...



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- Systematic approach
- Engineering principles
- Data driven decision making
- Measured outcomes
- Continuous improvement

Underpinning of Success...





Drew Bossen

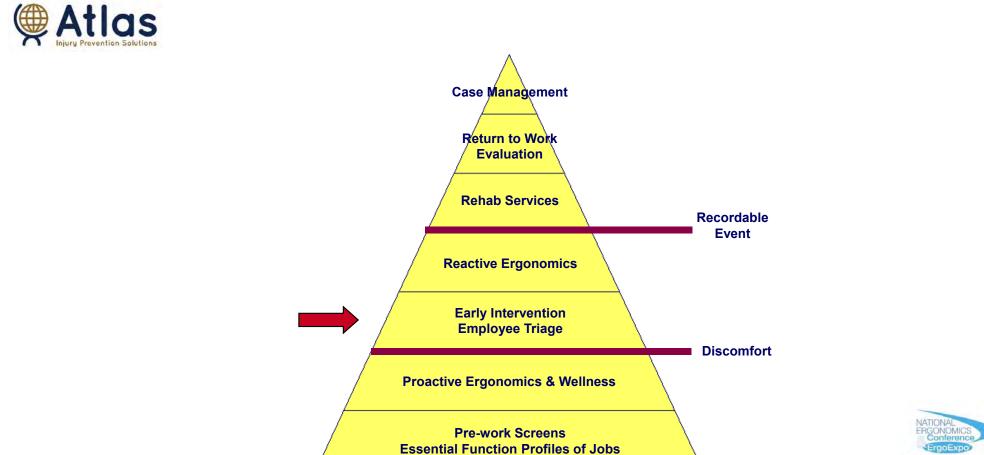
• Drew Bossen, PT, MBA

A Physical Therapist with over 27 years of experience in injury prevention and development of treatment protocols for injured workers. Drew's knowledge and experience is in on-site clinical services, ergonomics and wellness strategies, and compliance.





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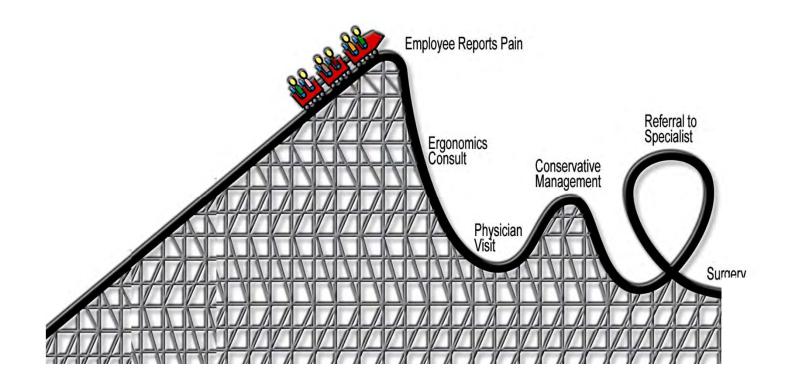
What is Total Worker Health®?

Policies, programs, & practices that integrate protection from work-related safety & health hazards with promotion of injury & illness prevention efforts to advance worker well-being





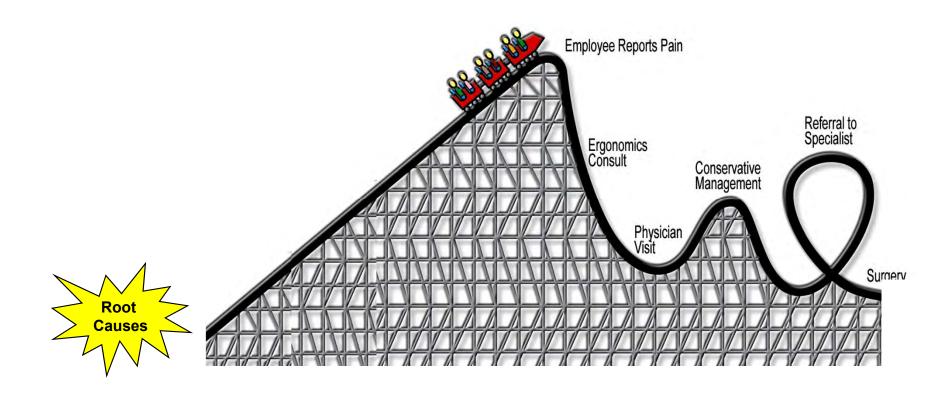
Traditional Approach to Injury Management...



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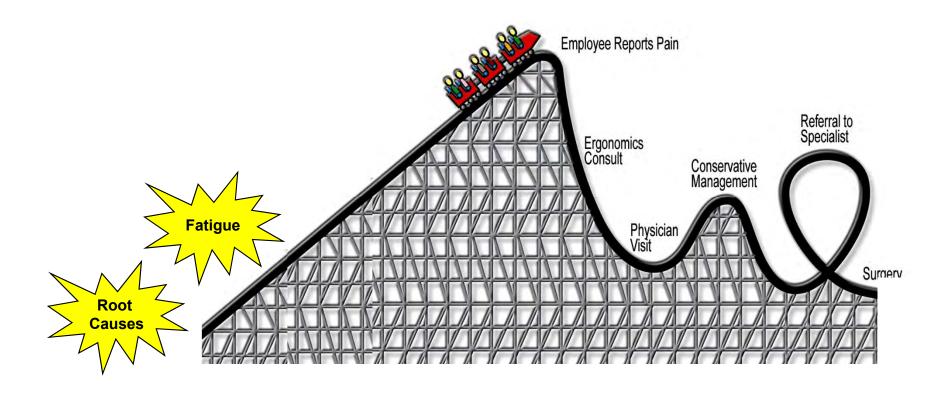
An Alternative Approach to Injury Management...



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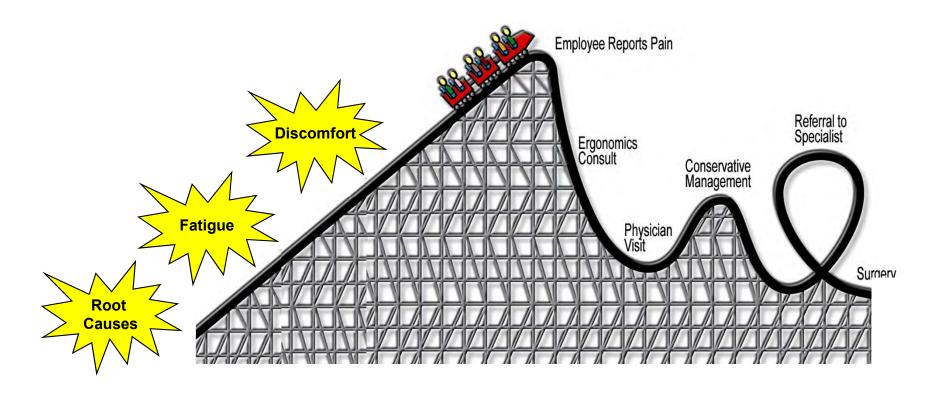
An Alternative Approach to Injury Management...



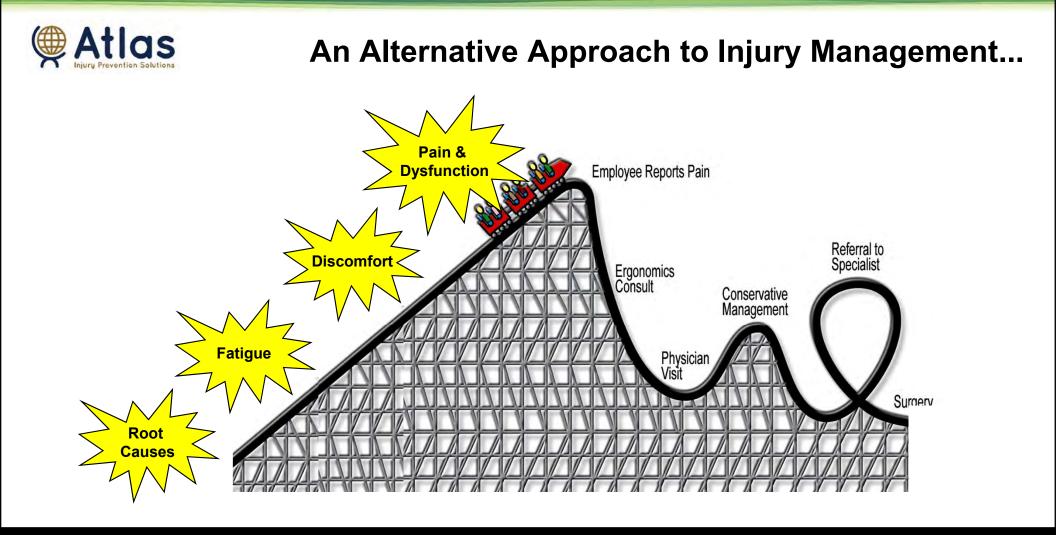
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An Alternative Approach to Injury Management...



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Tug of War...





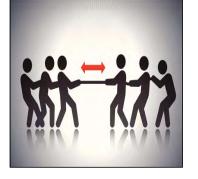
Gang of Four...





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Gary Orr, Ergonomist US Dept. of Labor - OSHA

Meeting of: May 2015



Michael Hodgson Medical Director US Dept. of Labor - OSHA

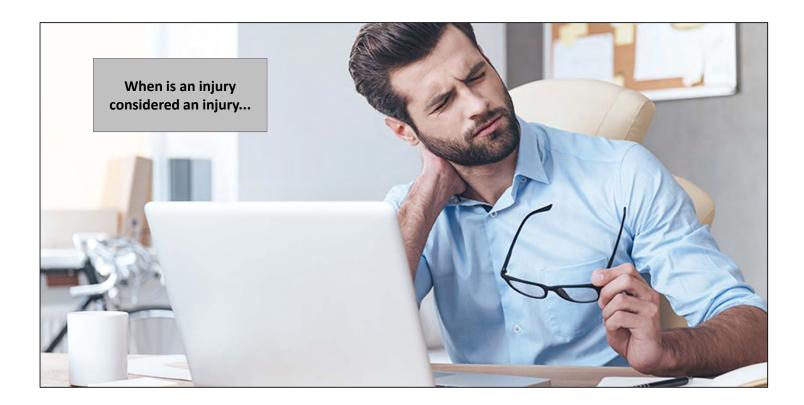


Dave Schmidt Office of Statistical Analysis US Dept. of Labor - OSHA

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Use of Kinesio-Tape

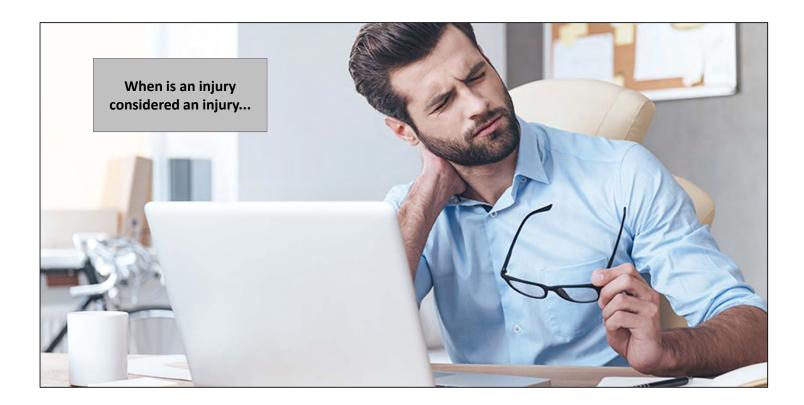


Preventative Exercise



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Signs & Symptoms...



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Signs of an Injury...

- Signs of a musculoskeletal injury or illness are indications the provider of care can sense when attending to an injured person (e.g. the things that the provider can see, hear and/or feel).
 - Joint pain / Tenderness at a specific point
 - Swelling, warmth, bruising
 - Reduced range of motion
 - · Comparative weakness (right vs. left)
 - Joint instability testing
 - Neurologic examination
 - Special tests associated with body part



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Symptoms of an Injury...

- Symptoms of an injuries or illnesses is information transferred by the injured person to the care provider (e.g. what he or she says to the care provider).
 - > "My knee feels unstable."
 - > "My wrist hurts; it is painful when I move it."
 - > "I have tingling in my thumb and index finger."





Symptoms of an Injury...

- Symptoms of an injuries or illnesses is information transferred by the injured person to the care provider (e.g. what he or she says to the care provider).
 - > "My knee feels unstable."
 - > "My wrist hurts; it is painful when I move it."
 - > "I have tingling in my thumb and index finger."
 - ➤ "My arm feels tired."
 - > "My back is fatigued at the end of the day."
 - > "My knee is sore."



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The Continuum... Tired Fatigued **Heaviness** Soreness Ache Twinge **Discomfort** Throb **Distress** Pain

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An Alternative Approach to Injury Management...

Pain & Dysfunction Considerations

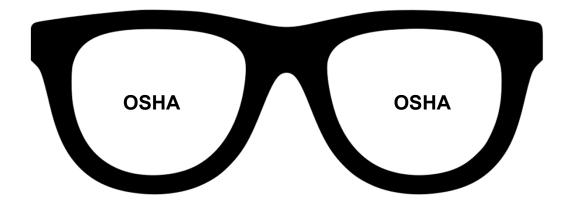
- Pain is subjective
 - $\checkmark\,$ Varies by individual
 - ✓ Should not be the lone criteria
- Dysfunction is a better measure
 - ✓ Exam findings
 - ✓ Can they perform job task

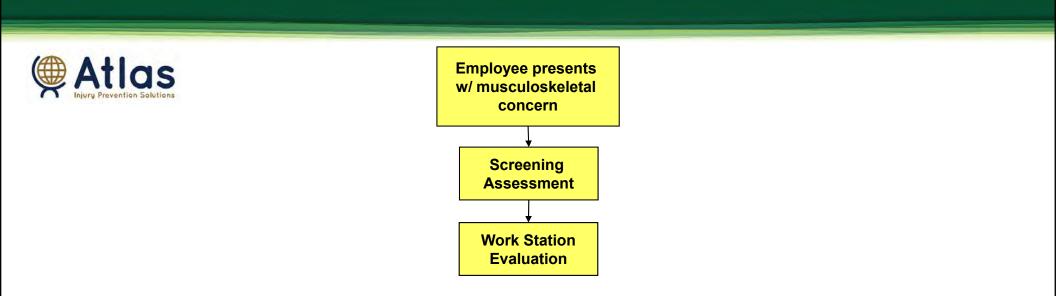


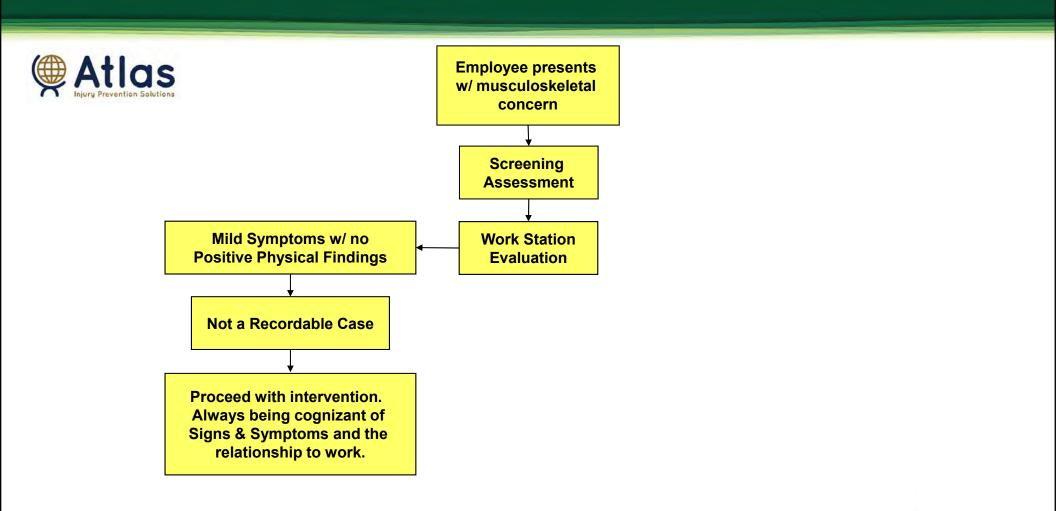
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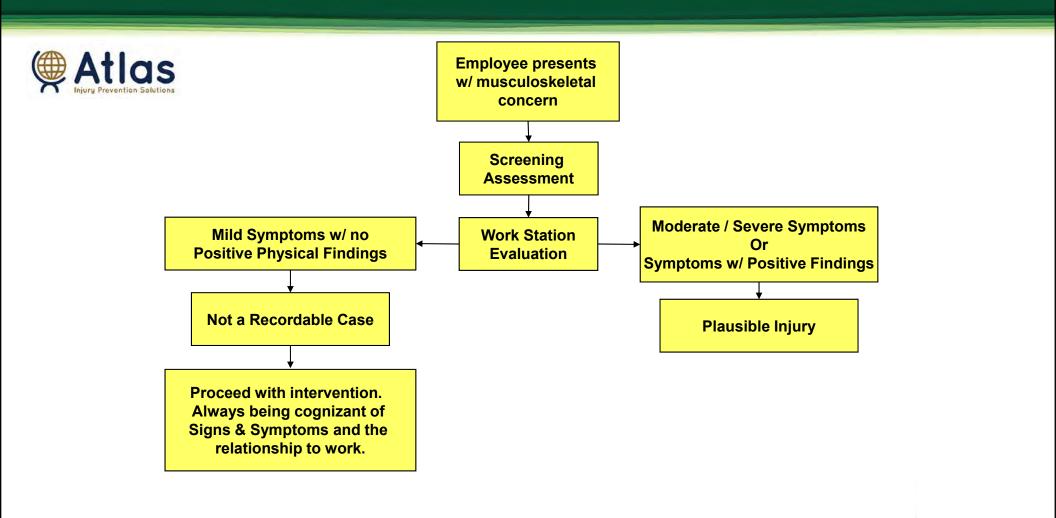


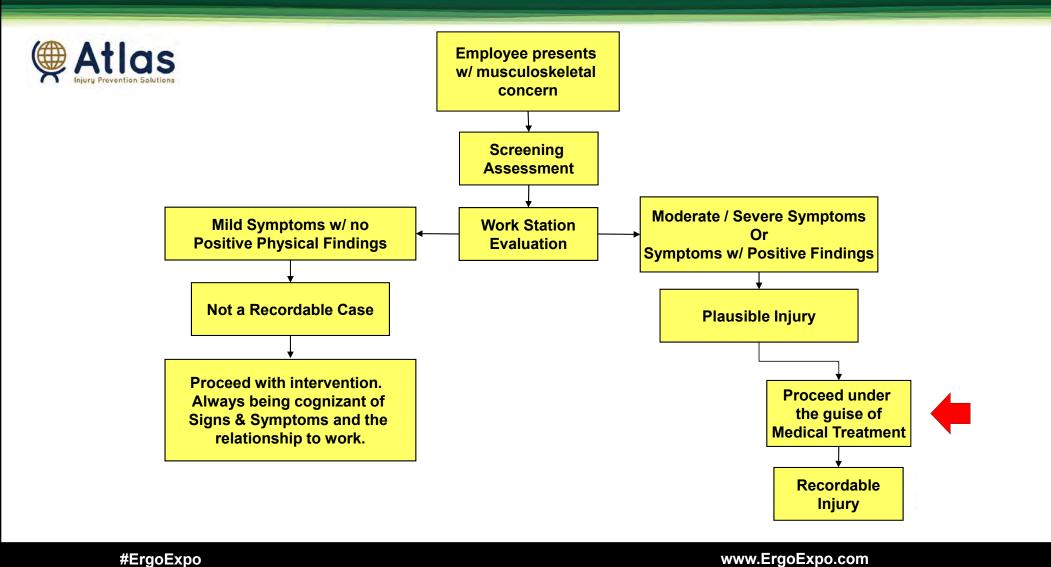
Medical Treatment vs. First Aid...

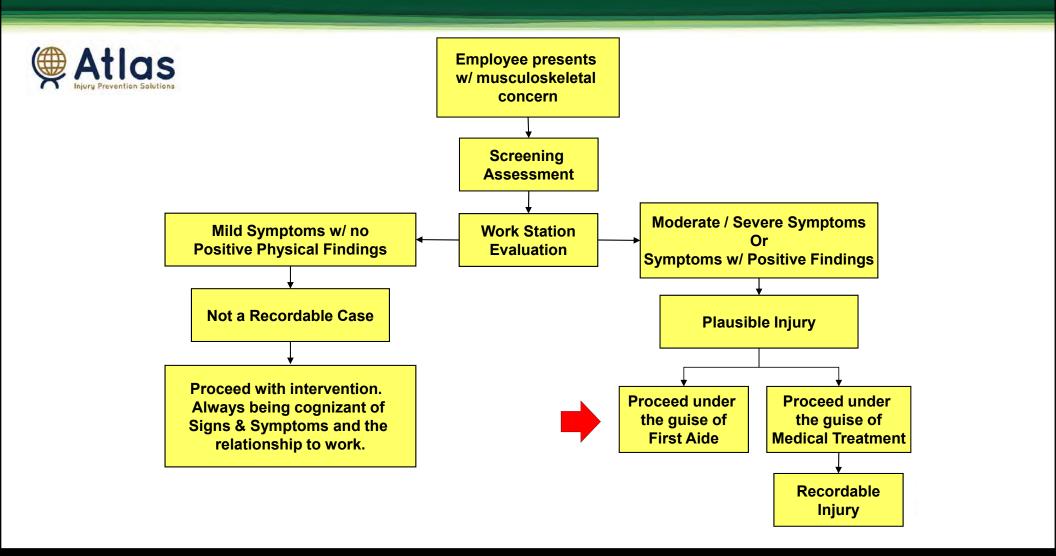


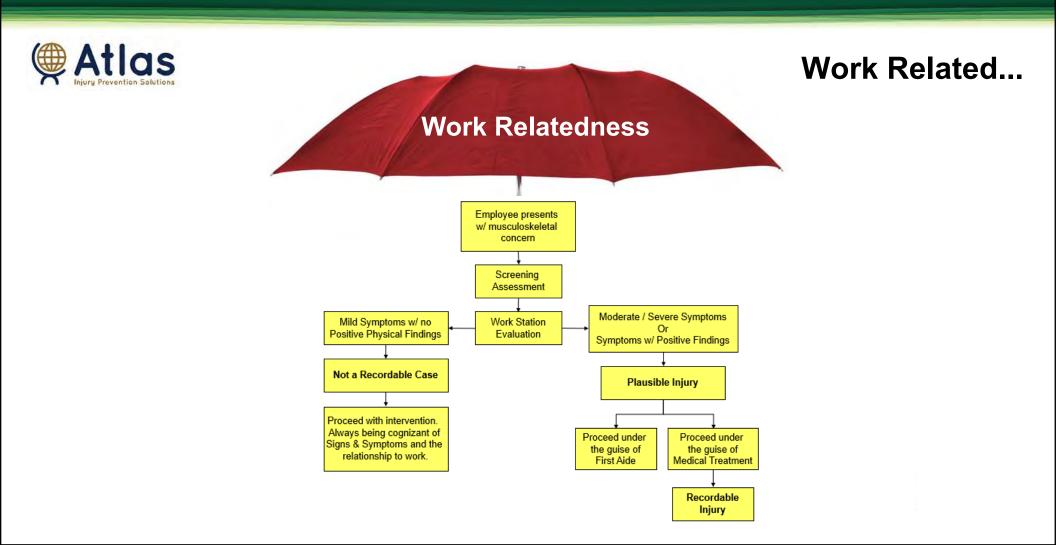












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Medical Treatment vs. First Aid...

Per OSHA

 What is the definition of medical treatment? "Medical treatment" means the management and care of a patient to combat disease or disorder. For the purposes of Part 1904, medical treatment does not include:



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•

Medical Treatment vs. First Aid...

For the purposes of Part 1904, medical treatment does not include:

• 1904.7(b)(5)(i)(A)

Visits to a physician or other licensed health care professional solely for observation or counseling;

1904.7(b)(5)(i)(B)

The conduct of diagnostic procedures, such as x-rays and blood tests, including the administration of prescription medications used solely for diagnostic purposes (*e.g.*, eye drops to dilate pupils); or

1904.7(b)(5)(i)(C)

"First aid" as defined in paragraph (b)(5)(ii) of this section.



Medical Treatment vs. First Aid...

	Complete Listing of First Aid Treatments				
	Α	Using a non-prescription medication at nonprescription strength			
	В	Administing tetanus immunization			
(Z)	С	Cleaning, flushing or soaking wounds on the surface of the skin			
-(A)(ii	D	Using wound coverings; bandages, Band-Aids™, gauze pads, etc.; or using butterfly bandages or Steri-Strips™			
(5)(E	Using hot or cold therapy			
4.7	F	Any non-rigid means of support, such as elastic bandages, wraps, non-rigid back belts, etc.			
:: 190	G	Temporary immobilization evices while transporting an accident victim (e.g., splints, slings, neck collars, back boards, etc.)			
Jen	н	Drilling a fingernail or toenail to relieve pressure, or draining fluid from a blister			
atn	I	Using eye patches			
Tre	J	Removing foreign bodies from the eye using only irrigation or a cotton swab			
First Aid Treatment: 1904.7 (5)(ii)(A)-(N)	к	Removing splinters or foreign material from areas other than the eye by irrigation, tweezers, cotton swabs, or other simple means			
	L	Using finger guards			
	м	Using massage			
	N	Drinking fluids for relief of heat stress			

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Use of Kinesio-Tape...



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Background on the use of Kinesio-Tape...

Standard Number:	1904; 1904.7(b)(5)(ii)(M)
	and the set teleform of
Letter of Interpre	tation
December 12, 2014	
Linda Ballas & Asso	ciates
7129 Nightingale D	
Holland, OH 43528	
Dear Ms. Ballas:	
Thank you for your	recent letter to the Occupational Safety and Health Administration (OSHA) regarding
the recordkeeping i	equirements contained in 29 CFR Part 1904 - Recording and Reporting Occupational
Injuries and Illness recordkeeping purp	Is. You ask if kinesiology tape is considered medical treatment for OSHA oses.
We enneulised with	shysicians in OSHA's Office of Occupational Medicine and they inform us that

Letter of:
December 12, 2014

We consulted with physicians in OSHA's Office of Occupational Medicine and they inform us that kinesiology taping is designed to relieve pain through physical and neurological mechanisms. The lifting action of the tape purportedly relieves pressure on pain receptors directly under the skin, allowing for relief from acute injuries. The use of kinesiology tape is akin to physical therapy and is considered medical treatment beyond first aid for OSHA recordkeeping purposes. (See section 1904.7(b)(5)(ii)(M)).

> Francis Yebesi, Acting Director Directorate of Evaluation and Analysis

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Gary Orr, Ergonomist US Dept. of Labor - OSHA

Meeting of: May 2015



Michael Hodgson Medical Director US Dept. of Labor - OSHA



Dave Schmidt Office of Statistical Analysis US Dept. of Labor - OSHA

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Medical Treatment vs. First Aid...

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	L	Using finger guards			
	М	Using massage			
	Ν	Drinking fluids for relief of heat stress			

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Letter of Interpretation...

July 6, 2015 Jim Thornton National Athletic Trainers' Association 1620 Valwood Parkway, Suite 115 Carrollton, TX 75006

Dear Mr. Thornton:

Thank you for your letter dated January 27, 2015, to the Occupational Safety and Health Administration

Letter of: July 6, 2015

As requested, OSHA has reevaluated its classification of the application of kinesiology tape as constituting medical treatment. OSHA reviewed information associated with such tape from patent applications, from relevant instructional materials and directions for when and how to use it, from evaluations and descriptive experiences involving recommended uses and their efficacy, from assessments regarding the nature and mechanisms of its effects, and from reviews of the extent and nature of any medicinal, neurological, and physical properties and impacts.

Pursuant to 29 CFR 1904.7, first aid treatment includes "any non-rigid means of support, such as elastic bandages, wraps, non-rigid back belts, etc." The use of kinesiology tape and other types of elastic taping is included within the definition of first aid treatment, and thus the use of such tape alone would not be considered medical treatment.

Directorate of Technical Support and Emergency Management

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Preventative Exercise...





Background on Exercise...

May 20, 2011

Mr. Paul Bragenzer 1415 Rothbury Dr. Grand Rapids, MI 49505

Dear Mr. Bragenzer:

Thank you for your February 2011 letter to the Occupational Safety and Health Administration (OSHA) regarding the recordkeeping regulation contained in 29 CFR Part 1904 - Recording and Reporting Occupational Injuries and Illnesses. In an effort to provide the public with prompt and accurate responses, we developed and continue to refine a set of Frequently Asked Questions (FAQ), in addition to maintaining a log of Letters of Interpretation (LOI) on the OSHA Recordkeeping web site.

Your letter asks OSHA to clarify whether an exercise regime directed by a Certified Athletic Trainer (ATC) would constitute "first aid" or "medical treatment" for OSHA injury and illness recordkeeping purposes.

Letter of: May 20, 2011



Background on Exercise...

Continued...

OSHA discussed the issue of therapeutic exercise in the preamble to the final rule revising OSHA's injury and illness recordkeeping regulation. See, 66 FR 5992, January 19, 2001. OSHA stated that it considers therapeutic exercise as a form of physical therapy and intentionally did not include it on the list of first aid treatments in Section 1904.7(b)(5)(ii). Section 1904.7(b)(5)(ii)(M) states that physical therapy or chiropractic treatment are considered medical treatment for OSHA recordkeeping purposes and are not considered first aid.



Background on Exercise...

Continued...

Please be aware that if a treatment is administered as a purely precautionary measure to an employee who does not exhibit any signs or symptoms of an injury or illness, the case is not recordable. For a case to be recordable, an injury or illness must exist. For example, if, as part of an employee wellness program, an ATC recommends exercise to employees that do not exhibit signs or symptoms of an abnormal condition, there is no case to record. Furthermore, if an employee has an injury or illness that is not work-related, (e.g., the employee is experiencing muscle pain from home improvement work) the administration of exercise does not make the case recordable either.

	At	as
A	Injury Preven	tion Solutions

U.S. Department of Labor

	Reply to the adention of	
SEP 0 9 2015		
Scott Ege, P.T., M.S. Ege WorkSmart Solotinns, I PO Box 603 Rockton, IL 61072	PC .	Pi er rec
Dear Mr. Eus-		of
regarding 29 CFR Part 1004 You ask for elarification reg and whether the recommend log. Specifically, you reque	the Occupational Safety and Health Administration (OSHA) – Recording and Reporting Occupational Injuries and Illnesses, ariting this control, applications, and definition of the tram "exercise," lation or use of exercise musi always be recorded on the OSHA 300 at clarification from OSHA on the differences between the use of intervention strategy, and therapeutic excrease used to treat a work-	w Pi in C <u>w</u> E
muscaloskeletal function, or Medicine and Robabilitation treatment when it is designed	By movement prescribed to correct impairment, improve maintain a state of well-being (ace Armson's Handbook of Physical 1, 7d ed., 1982). Therepostic averaging different indication if and administernal to combat a particular injury, filacea, or dhurder tas meladina termination of the therapanitic exercise once that flot have been and	er Fr Di Ci Ci Ci Ci Ci Ci Ci Ci Ci Ci Ci Ci Ci
the final rule establishing O FR 5992, January 19, 2001. physical therapy and intertib 1904 7(b)(5)(fi). Section 19 treatment are considered me considered first aid. Section Section 1904.7(b)(5)(fi) is a	OSHA discussed the insue of therupeutic exercise in the preamble to SHA's current injury and illness recordbacepting regulation. See, 66 OSHA stated that it considers therapeutic exercise at a form of enally did not include it on the list of first aid treatments in Section 04.7(b)(S)(ii)(N) states that physical therapy or chiropenetic dical treatment for OSHA recordbeeping purposes and are not 1.904.7(b)(S)(ii) goes on to state that the treatments included in comprehensive list of first aid treatments. Any treatment not suidared line at dir of OSHA recordbaceping purposes.	W Pro Co S ¹ S ¹ S ² S ² S ² S ² S ² S ² S ² S ²
disorder. Although injury a reflect an adverse change in the level of an abnormal cor subjective are included in th exhibits symptoms of an inj	on 1904.46 defines an injury or illness as an abnormal condition or of illness is broadly defined, they capture only those changes that the employee's condition that is of some injurificance, i.e., that mach utiliton or disorder. Pain and other symptoms that are wholly at definition: Sae, 66 FR 6080. Accordingly, if an employee are yet illness and that injury or illness is considered work-related as he administration of exercise nakes the case recordable.	Si A D

Cocupational Skilly and Hestin Achtestonen

Letter of Interpretation...

Letter of: September 9, 2016

Please be aware that if a treatment is administered as a purely prevantionary measure to an employee who does not exhibit any signs or symptoms of an injury or illness, the case is not recordable. For a case to be recordable, an injury or illness must exist, for example, it, as part of an employee wellness program, i health care provider recommends exercise to employees who do not exhibit signs or symptoms of an almonraid contribution, there is no case to record. Furthermore, if an employee has an injury or illness that is not work-related, (e.g., the employee is experiencing muscle pain from home improvement work), the administration of excretise does not make the case recordable either. See, OSHA's May 20, 2011, Letter of Interpretation, Clarification on whether an exercise regionen is first aid or medical treatment www colla.accer recording WK interpretations.html

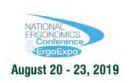
Exercises that are generally part of safe work practices commonly recommended for anywere engaged in exercisin ladks or working with contain equipyrant nee not contained freed medical treatment. For example, user instructions provided with a computer work station might include guidance improper positive or intermittent minor exercises that use (spically suggested to help roduce the righof developing manufacture) and interface. Common advices for persons driving long distances may include taking breaks to get out and stretch. Counseling or controlling an employee to engage in costs antivities or adopt such processing in the considered to be medical treatment Again, for purposes of CSIA recordiscepting, the focus is on whether an employee has sustained a work-related to image or lines, and whether exercise is a used to treat that condition.

We hope you find this information helpful. OSHA requirements are set by statute, standards, and regulations. Our interpretation letters explain these requirements and how they apply to particular circumstances, but hey cannot create additional employer obligations. This letter constitute OSHA's uncerprisettor of the requirements discussed. Note that our enforcement guidance may be affected by changes to OSHA rules. Also, from time to time we update our guidance in responses to new information. To keep appraised of such developments, you can control OSHA's website at http://www.osha.gov.

Sincerely,

Amarkabus

Amanda Edens, Director Directorate of Technical Support and Emergency Management

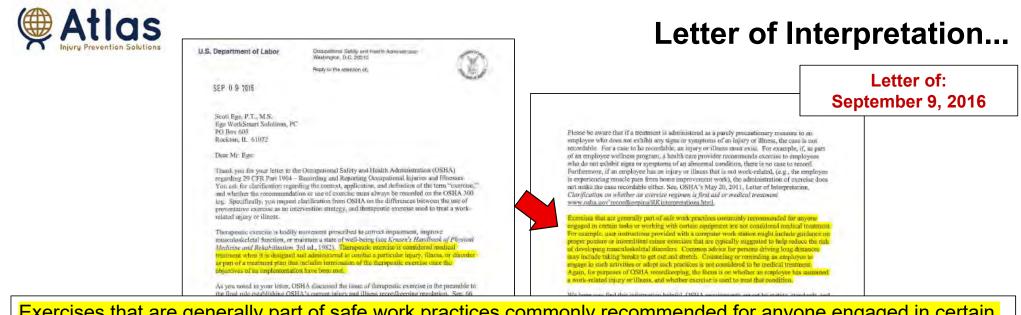


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Atlas	about a spectrum of answer.	Occupational Settily and Heelin Arministration Windowgram, D.C. 20210	5	Letter of Ir	nterpretation.
	SEP 0 9 2016	Fisply to the adjunction of:	Y		Letter of: September 9, 2016
	regarding 30 CFR Part 1044 – Reco You ask for elariflention regarding to and whether the recommendation or log. Specifically, you request clarif preventative exercises as in intervent related anjury or illness. Therapeutic exercise is hodily more muscoloskeletal function, or mains Medicine and Robabilitation. 31d of treatment when it's designed and a as part of a treatment plun line near bijentives of us implementation hav As you noted in your letter, OSHA's the final rule establishing OSHA's of FR 5092, January 19, 2001. OSHA's physical therapy and intertifounly d 1904 700/(51611) Section 1904.7(b) treatment are considered medical to considered first aid. Section 1904. Section 1904 (XiK)(51611) is a compress	empational Safety and Health Administration reling and Reporting Occapational Injuries the context, application, and definition of the rule of exercise must always be recorded to fication from OSHA on the differences bitw thion strategy, and abettapowire excreise used ensent presenfled to correct impairment, imp an a state of well-being (see Kruson's Hand (1982). Therepoute uncertain is considered administration of well-being (see Kruson's Hand (1982). Therepoute uncertain is considered administration of the hearspoole exercise indice termination of the hearspoole exercise is been used. discussed the issue of therapeutic exercise is corrent injury and illuses recordscepting reg- stated that it considers therapeutic exercise is cannot. for OSHA recordice prince theraposet (b(S)(i)) at ates that physical therapy or chi- santent for OSHA recordicepting purposes (b(S)(i)) atos so to state that the treatment schemics int of first aid treatments. Any tre distrated for OSHA recordicepting rungoses	and Illussies: in the OSHA 300 icen thu use of the trait a work- to treat a work- prove these of Physical d medical inca, or disorder once the in the prearable to plation. See, 60 and are not to indiced in Section iropractic and are not atment not	Plesse be aware that if a treatment is administered as a purely precautionary measure to employee who does not exhibit any signs or symptoms of an injury or illness, the case is recordable. For a case to be recordable, an injury or illness must exist. For example, if, of an employee wellness program, a health care provider recommends exercise to employe who do not exhibit signs or symptoms of an almormal condition, there is no case to record Furthermore, if an employee has an injury or illness that is not work-related, (e.g., the is experiencing muscle pain from home improvement work), the administration of exer- net make the case recordable either. See, OSHA's May 20, 2011, Letter of Interpretation <i>Clarification</i> on whether an excirctive regionm is first aid or medical treatment www.osha.acov'recordkeepina/RK/interpretations.html. Econsides that are generally part of add work practices commonly recommended for an engaged in certain tasks or working with cartuin equipment use not considered medican by proper positure or intermittent lineader to some advice for persons driving in prone positure or intermittent disorders. Common advice for persons driving the advices in the advices in a disorder some advice for persons driving the advices in a work-related induction any include taking bench: to get out and stretch. Counceing or cartualing an employee any work-related injury or illness, and whether exercise is not whether an employee base a work-related injury or illness, and whether exercise is is seen by statute, statud regulations. One interpretation letters explain these requirements and how they apply to particular ericumstances, but they cannot create additional employer base a more related injury or illness, and whether exercise is is of whether an employee to particular ericumstances, but they cannot create additional employer obligations. This letter constitutes OSHA's interpretation letters explain these requirements and how they apply to particular ericumstances, but they cannot cre	is not. , as pars oyees orff. mployee cise does m, yens treatmont. idance un se the risk sub risk treatmont. idance un se the risk sub risk treatmont. idance un se the risk treatmont. idance

Therapeutic exercise is bodily movement prescribed to correct impairment, improve musculoskeletal function, or maintain a state of well-being (see *Krusen's Handbook of Physical Medicine and Rehabilitation*. 3rd ed., 1982). Therapeutic exercise is considered medical treatment when it is designed and administered to combat a particular injury, illness, or disorder as part of a treatment plan that includes termination of the therapeutic exercise once the objectives of its implementation have been met.

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Exercises that are generally part of safe work practices commonly recommended for anyone engaged in certain tasks or working with certain equipment are not considered medical treatment. For example, user instructions provided with a computer work station might include guidance on proper posture or intermittent minor exercises that are typically suggested to help reduce the risk of developing musculoskeletal disorders. Common advice for persons driving long distances may include taking breaks to get out and stretch. Counseling or reminding an employee to engage in such activities or adopt such practices is not considered to be medical treatment. Again, for purposes of OSHA recordkeeping, the focus is on whether an employee has sustained a work-related injury or illness, and whether exercise is used to treat that condition.

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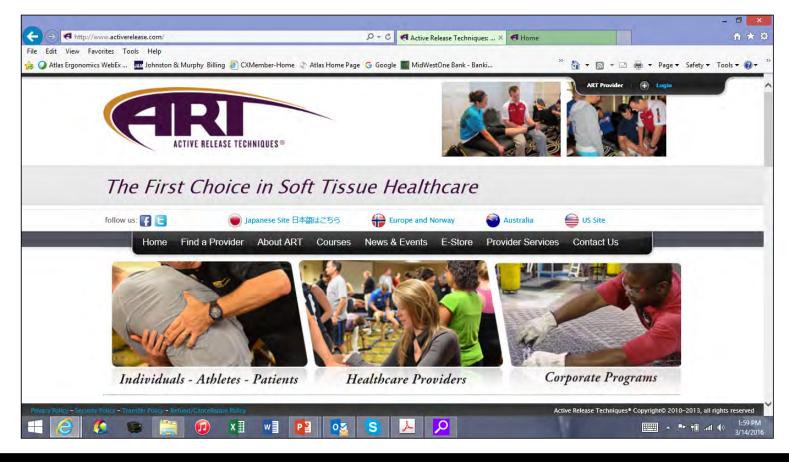
Clarity on ART[®]...



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Clarity on ART[®]...



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U.S. Department of Labor Assistant Bechary for Occupational Safety and Heath Washington, D.C. 20210		Letter of:
<text><text><text><text><text><text></text></text></text></text></text></text>	as administered to employee as part of an employee wellness program and those employee do not exhibit signs or symptoms of an abnormal condition related to work, there is no case to record. 66 Additionally, if an employee has an injury or illness that is not work-related (e.g., the employee is experiencing muscle pain for home improvement work) the administration of the ART technique does not render that case recordable. ary of the ART technique does not render that case recordable based solely on the administration of the ART technique does not render that case recordable based solely on the administration of ART, but may become recordable when administered in conjunction ugn with medical treatment. As stated above, if ART is administered as a purely precoutionary measure to an employee who does not exhibit any signs or symptoms of an injury or illness, the case is not recordable. red Thank you for your interest in occupational safety and health. We hope you find this information heipful. OSHA requirements are set by statute, standards, and regulations. Our integretation of the requirements are set by statute, standards, and regulations. Our integretation of the requirements and how they apply to particular circumstances, but they cannot create additional employer obligations. This letter constitutes OSHA vines, tha addition, we information. To keep apprised of such developments, you an consul. OSHA's weighted on new information. To keep apprised of such developments, you an consult OSHA's weighted on new information. To keep apprised of such developments, you an consult OSHA's weighted on new information. To keep apprised of such developments, you an consult OSHA's weighted on the information state in the livision on the conditive apprised on a 20:493-1702. <td>July 24, 200</td>	July 24, 200

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	U.S. Department of Labor Assistant Becreative for Occupational States and Hearn Washington, D.O. 20210	After completing an analysis of the information currently available, OSHA cannot	Letter of: July 24, 2006
	Michael Leahy, DC Active Release Techniques, LLC 175 South Union Blvd. Suite 230 Colorado Springs, Colorado 80910	determine that ART generally exceeds what is commonly recognized as massage practices. Based on this determination, OSHA finds that ART is considered first aid for injury and illness recordicepting purposes. However, please keep in mind that work- related injuries and illnesses that involve ART are recordable if they also entail the use of medical treatment, a job transfer, restricted work activity, or days away from work. For example, a work-related injury or illness, is recordable if prescription medications are administered in response to an injury or illness, in conjunction with the manipulation of the skeleton, it would be recordable.	
	Dear Dr. Leaby	Regarding recordability in general, we would like to point out that when ART is	
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Confusion in the Marketplace...

Confusion Exists:

Since the OSHA's June 24, 2006, letter of interpretation regarding soft tissue massage and ART[®], confusion has existed among health and safety professionals.

- Some have been led to believe ART[®] provides a unique non-recordable method to address discomfort and avoid Musculoskeletal Disorder (MSD) related injury claims.
- Some also have been led to believe if a physical therapist or certified athletic trainer provides massage, doing so is considered treatment and drives a recordable injury.
- Neither are true...



Analysis...

Analysis:

- 1. The 2006 Leahy Letter provided those with ART[®] certification a competitive edge within the employer onsite marketplace.
- 2. It should not be OSHA's position to advocate for a singular proprietary treatment intervention as outlined in OHSA's provision of First Aid 1904.7(b)(5)(ii)(M) regarding Massage. The playing field needs to be evened between ART[®] and the services physical therapists provide onsite.
- 3. ART[®] is not the only massage related soft tissue massage approach constituted as first aid for injury and illness recordkeeping purposes.
- 4. Finally, physical therapists and athletic trainers are well trained and versed in providing similar soft tissue management techniques, akin to ART[®].



U.S. Department of Labor Assistant Secretary for Occupational Safety and Health Washington, D.O. 20210 JUL 2 4 2006 Michael Leahy, DC Active Release Techniques, LLC 175 South Union Blvd. Suite 230 Colorado Springs, Colorado 80910 Dear Dr. Leahy This letter is in response to your requests, including your most recent letter dated July 7, 2006, that OSHA reconsider its decision to classify Active Release Techniques (ART) as medical treatment as it relates to 29 CFR Part 1904, OSHA's injury and illness recordkeeping regulation. Please note that this letter supersedes the January 5, 2006 memorandum from the Director of OSHA's Directorate of Evaluation and Analysis to OSHA's Region VIII Administrator concerning Active Release Techniques. Section 24(a) of the Occupational Safety and Health Act of 1970 requires the Secretary of Labor to compile accurate statistics on work injures and illnesses. In response, OSHA promulgated 29 CFR Part 1904, Occupational Injury and Illness Recording and Reporting Requirements. This rule directs employers to record work related injuries and illnesses that, among other criteria, require medical treatment beyond first aid. Through the rulemaking process, OSHA has defined what constitutes a work-related injury or illness and what constitutes medical treatment for recordkeeping purposes (29 CFR Part 1904.7(b)(5)). In this situation, the key issue is whether ART should be considered massage, thereby falling within the definition of first aid, rather than medical treatment under this regulation. Please keep in mind that the list of first aid treatments in Section 1904.7(b)(5)(ii) is comprehensive, and that any treatment not included on this list is not considered first aid for OSHA recordkeeping purposes. In determining whether ART constitutes first aid or a medical treatment under the definitions of the recordkeeping rule, OSHA's Directorate of Evaluation and Analysis, in consultation with the Office of Occupational Medicine, undertook a comprehensive analysis including: 1) evaluation of the literature description of ART; 2) examination of the patent application for ART and the subsequent Certificate of Correction filed at the U.S. Patent Office; 3) review of articles concerning ART in medical journals; 4) review of an insurance provider's classification of the ART procedures you provided to us; and 5) observation of an ART demonstration.

Taking Action...

Letter of: **September 11, 2015**

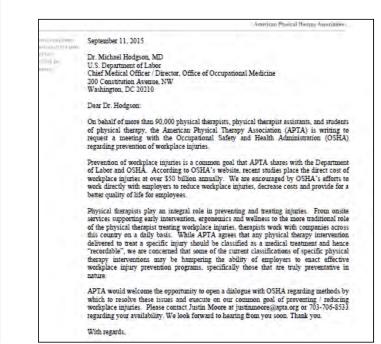
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injury and illness recordkeeping purposes. However, please keep in mind that workrelated injuries and illnesses that involve ART are recordable if they also entail the use of medical treatment, a job transfer, restricted work activity, or days away from work. For example, a work-related injury or illness is recordable if prescription medications are administered in response to an injury or illness, in conjunction with the manipulation of the skeleton, it would be recordable. Regarding recordability in general, we would like to point out that when ART is administered as a purely precautionary measure to an employee who does not exhibit any signs or symptoms of an injury or illness, the case is not recordable. If ART is administered to employees as part of an employee wellness program and those employee do not exhibit signs or symptoms of an abnormal condition related to work, there is no case to record. Additionally, if an employee has an injury or illness that is not work-related (e.g., the employee is experiencing muscle pain for home improvement work) the administration of the ART technique does not render that case recordable. In summary, work-related injuries and illnesses are not recordable based solely on the administration of ART, but may become recordable when administered in conjunction with medical treatment. As stated above, if ART is administered as a purely precautionary measure to an employee who does not exhibit any signs or symptoms of an injury or illness, the case is not recordable. Thank you for your interest in occupational safety and health. We hope you find this information helpful. OSHA requirements are set by statute, standards, and regulations. Our interpretation letters explain these requirements and how they apply to particular circumstances, but they cannot create additional employer obligations. This letter constitutes OSHA's interpretation of the requirements discussed. Note that our enforcement guidance may be affected by changes to OSHA rules. In addition, we reserve the right to review or revise the interpretation stated in this letter based on new information. To keep apprised of such developments, you can consult OSHA's website at http://www.osha.gov. If you have any further questions, please contact the Division of Recordkeeping Requirements at 202-693-1702. Sincerely Edwin G. Foulke.

Letter of Interpretation...

Letter of: May 23, 2019



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injury and illness recordkeeping purposes. However, please keep in mind that workrelated injuries and illnesses that involve ART are recordable if they also entail the use of medical treatment, a job transfer, restricted work activity, or days away from work. For example, a work-related injury or illness is recordable if prescription medications are administered in response to an injury or illness, in conjunction with the manipulation of the skeleton, it would be recordable.

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Letter of Interpretation...

Letter of: May 23, 2019

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Sincerely,

Hern D Joul

Edwin G. Foulke, Jr.

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Atlas	Injury and illness recordkeeping purposes. However, please keep in mind that work-	Letter of Inter	rpretation.
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10 L L L L L L L L L L L L L L L L L L L	Thank you for your interest in occupational safety and health. We hope you find this	On behalf of more than 90,000 physical therapists, physical therapist assistants, and students of physical therapy, the American Physical Therapy Association (APTA) is writing to	
Dr	Michael Hodgson, MD		
	S. Department of Labor		
	ief Medical Officer / Director, Off	ice of Occupational Medicine	
-20	0 Constitution Avenue, NW		

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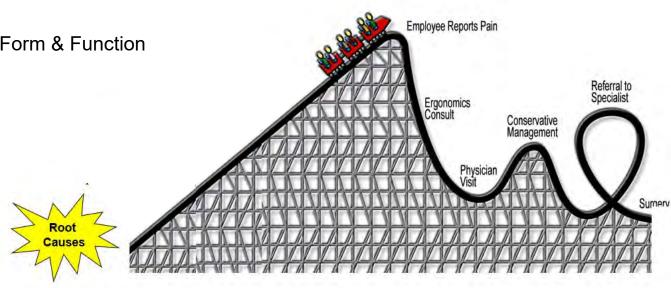


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Proactive Interventions

- 1. Job Demands Analysis
- 2. Ergo Audits
- 3. Ergonomic Risk Assessment
- 4. Ergo Fixes
- 5. Onboarding of New Employees
- 6. Stretching & Body Mechanics Form & Function
- 7. Discomfort Surveys



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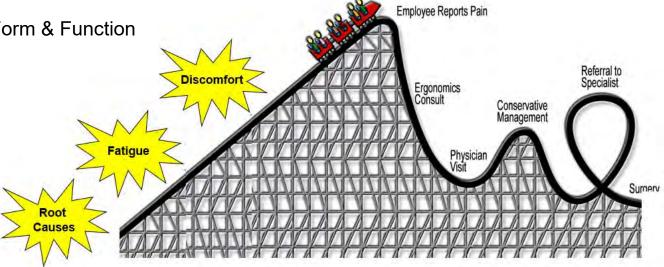


Proactive Interventions

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Reactive Interventions

- 7. Preventative Exercises
- 8. Taping Techniques
- 9. Soft Tissue Techniques
- 10. Non-Rigid Supports
- 11. Ice / NSAID (OTC)



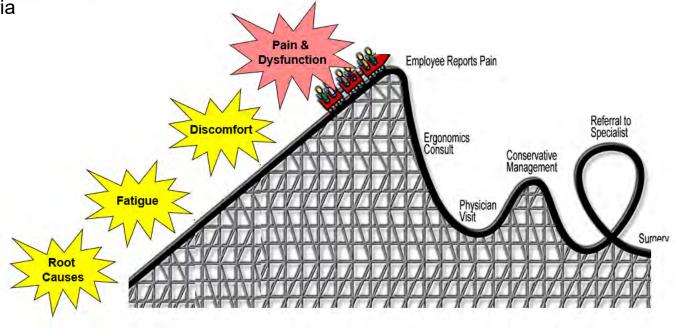
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Pain & Dysfunction Considerations

- Pain is subjective
 - ✓ Varies by individual
 - ✓ Should not be the lone criteria



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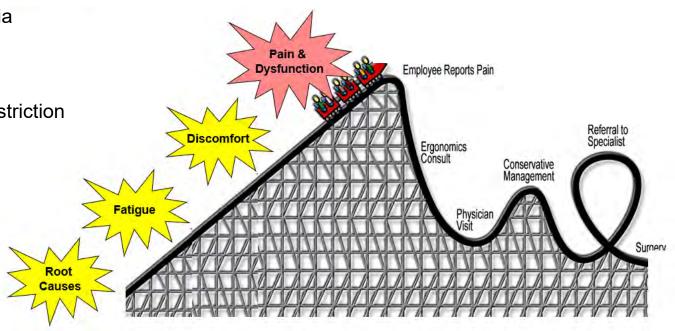
Complete Listing of First Aid Treatments				
	Α	Using a non-prescription medication at nonprescription strength		
	В	Administing tetanus immunization		
(N)-	С	Cleaning, flushing or soaking wounds on the surface of the skin		
1904.7 (5)(ii)(A)-(N)	D	Using wound coverings; bandages, Band-Aids™, gauze pads, etc.; or using butterfly bandages or Steri-Strips™		
(5)(Е	Using hot or cold therapy		
4.7	F Any non-rigid means of support, such as elastic bandages, wraps, non-rigid			
190 Intent:	G	Temporary immobilization evices while transporting an accident victim (e.g., splints, slings, neck collars, back boards, etc.)		
	Н	Drilling a fingernail or toenail to relieve pressure, or draining fluid from a blister		
atn	Ι	Using eye patches		
Tre	J	Removing foreign bodies from the eye using only irrigation or a cotton swab		
First Aid Treatment:	к	Removing splinters or foreign material from areas other than the eye by irrigation, tweezers, cotton swabs, or other simple means		
Fir	L	Using finger guards		
	м	Using massage		
	N	Drinking fluids for relief of heat stress		



Pain & Dysfunction Considerations



- ✓ Varies by individual
- ✓ Should not be the lone criteria
- Dysfunction is a better measure
 - ✓ Exam findings
 - \checkmark Can they perform job task
 - o Yes... Consider Job Restriction
 - o No... Consider Referral



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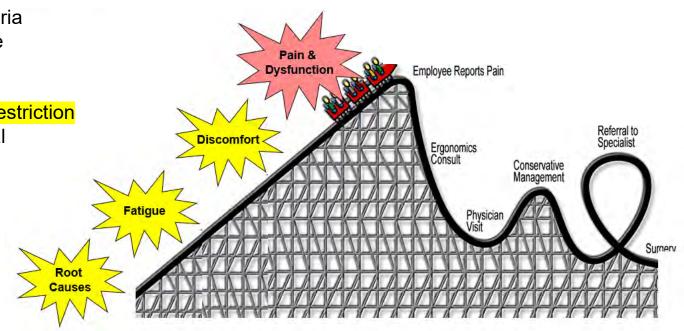
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Pain & Dysfunction Considerations

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Work Restrictions...



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Work Restrictions...

OSHA Frequently Asked Questions:

 Question 7-19. Does the employer have to record a workrelated injury and illness if an employee experiences minor musculoskeletal discomfort, the health care professional determines that the employee is fully able to perform all of his or her routine job functions, but the employer assigns a work restriction to the injured employee?



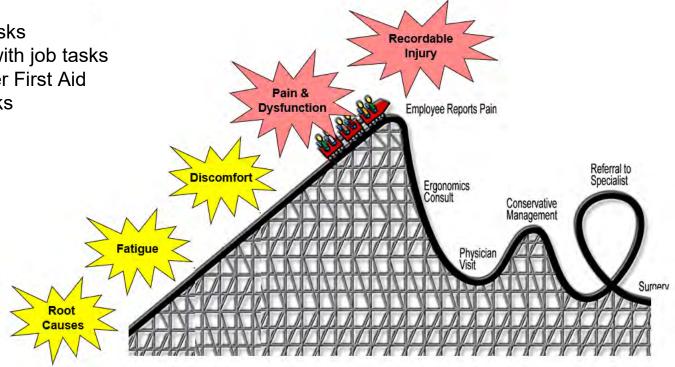
Work Restrictions...

 As set out in Chapter 2, I., F. of the Recordkeeping Policies and Procedures Manual (CPL 2-00.135) a case would **not** be recorded under section 1904.7(b)(4) if (1) the employee experiences minor musculoskeletal discomfort, and (2) a health care professional determines that the employee is fully able to perform all of his or her routine job functions, and (3) the employer assigns a work restriction to that employee for the purpose of preventing a more serious condition from developing. If a case is or becomes recordable under any other general recording criteria contained in section 1904.7, such as medical treatment beyond first aid, a case involving minor musculoskeletal discomfort would be recordable.



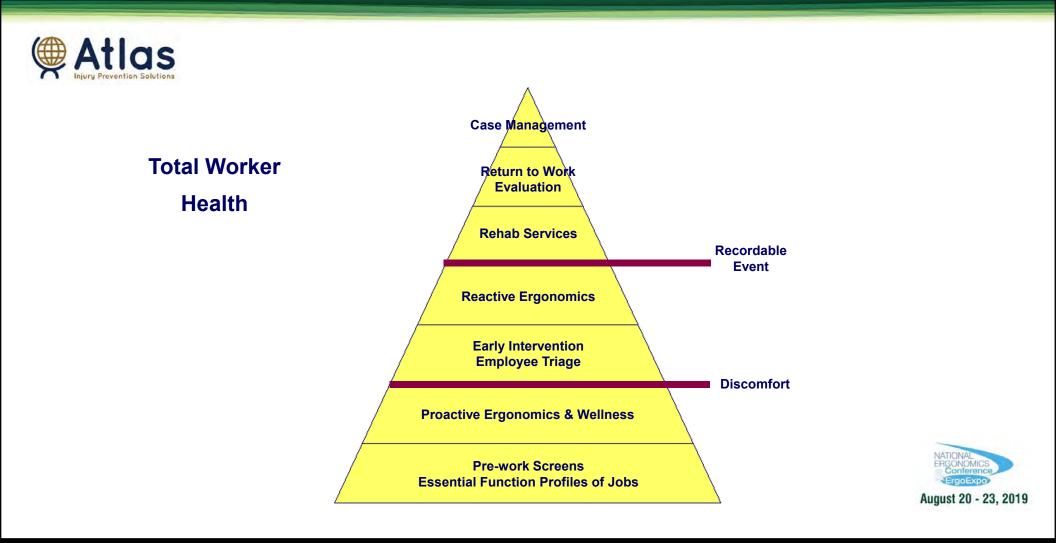
Consider Referral or Formal Physical Therapy

- Positive findings on exam
- Unable to perform routine job tasks
- Pain is persistent and inferring with job tasks
- Limited or no improvement under First Aid
 - ✓ General Guideline: 3-4 weeks
 - ✓ Not an absolute



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Contact Info...

Kris Corbett, Wellness Specialist

Phone: 616-607-6869 Cell: 215-820-5319 Email: <u>kcorbett@atlas-ips.com</u> Tony Silva, CPE

Phone: 616-607-6984 Cell: 226-339-7312

Email: tsilva@atlas-ips.com

Drew Bossen, PT, MBA

Phone: 616-607-6980 Cell: 319-430-3382

Email: dbossen@atlas-ips.com