

Keeping America on the Job!

Early Symptom Intervention: A Sports Medicine Approach to Keeping the Industrial Athlete in the Game

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About Saco Bay Orthopaedic & Sports Physical

Therapyhttps://www.sacobaypt.com/

- Founded in Saco ME in 1998
 - Larry Risigo currently Regional Director in ME
- A network of 40 outpatient centers in ME & NH
 - 2 more opening soon!





CONNECT f

Supported by Select Medical since 2013

- The nations' leading provider of specialized health care in both inpatient and outpatient settings
- Corporate office in Mechanicsburg, PA
- Local services, national resources

Four Operating Divisions:

Long-Term Acute Care (LTAC) Hospitals (95+ hospitals)

Inpatient Rehabilitation (25+ hospitals) Outpatient Division (1,700+ outpatient locations)

Occupational Medicine (500+ locations)

50,000+

Employees





Experience with Companies









Injury Prevention Specialists



Providing a Continuum of Services



Today's Objectives

- Review risk factors for musculoskeletal disorders and their impact for employers
- Discuss the definition of early symptom intervention (ESI), OSHA definition of First Aid and the benefits of an ESI program
- Compare an employer's obstacles and challenges in starting a program
- Review key factors that make a program successful including customization, communication and return on investment tracking





Impact of Work-Related Musculoskeletal Disorders (WRMSD)





Nearly half due to back sprains and strains



Direct and indirect costs of MSD and CTS are over \$20B

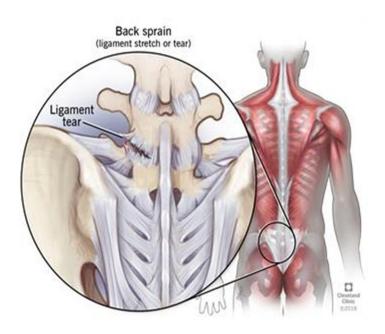
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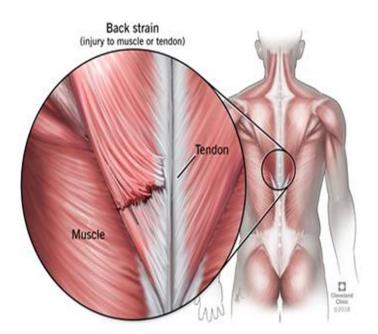




What are Work-Related Musculoskeletal Disorders?

Injuries or disorders of the muscles, nerves, tendons, joints, cartilage and spinal discs

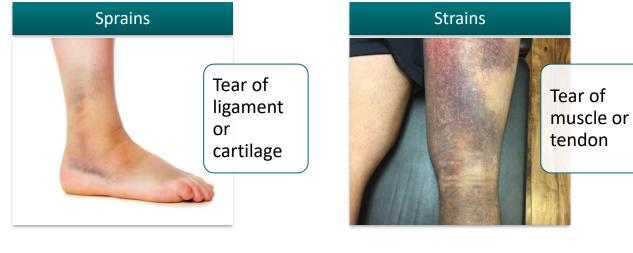


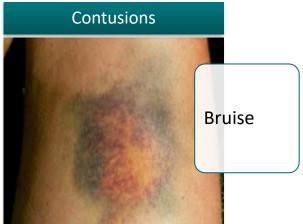






WRMSD: Traumatic/Acute









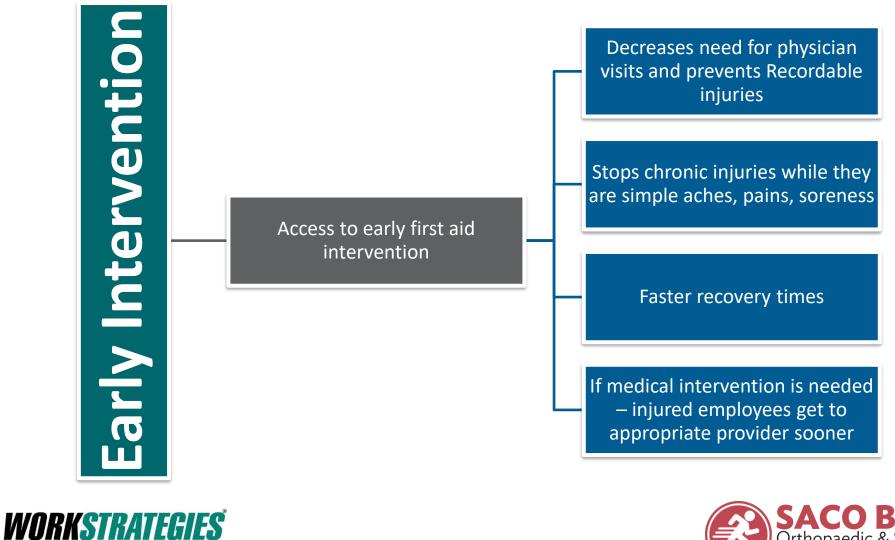


WRMSD: Insidious/Chronic

- Cumulative trauma
- Repetitive strain
- Overuse syndrome
- Common Diagnoses:
 - Tendinitis
 - Bursitis
 - Arthritis
 - Impingement
 - Bone spurs
 - DDD

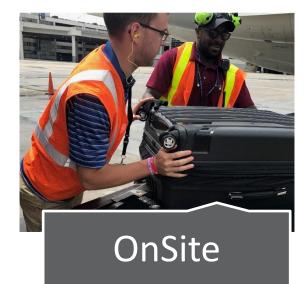


Key to Preventing WRMSD





Select Medical's Early Symptom Intervention (ESI) Programs



- Injury Prevention Specialist onsite at employer location
- Set weekly schedule
- Appropriate for larger employers or high injury risk



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Center Based

- Employees go to nearby Select Medical facility
- Appointments within 24 hours
- Appropriate for smaller employers



Virtual

- Employees "call" Select Medical Virtual Injury Prevention Specialist
- Appropriate for remote / smaller / satellite locations, off hours
- On call



ESI Providers

OnSite

Athletic Trainer / Injury Prevention Specialist Clinic Based

Physical / Occupational Therapist / ATC

> Physical Therapist Assistant

Virtual Athletic Trainer / Injury Prevention Specialist





PT/ATC Qualifications

- Experts in:
 - Musculoskeletal Assessment
 - Confidence when referrals are needed
 - Don't order imaging
 - ✓ OHSA first aid applications
 - ✓ Biomechanics & Kinesiology
 - ✓ Ergonomics







Program Components



OnSite

- ESI
- Job Analysis
- Ergonomic Intervention
- Injury Prevention Programs
- Wellness





Center Based

- ESI
- Job Analysis*
- Injury Prevention Programs*



Virtual

- Virtual ESI
- Virtual Job Analysis
- Injury Prevention Programs
- Virtual Wellness Consulting





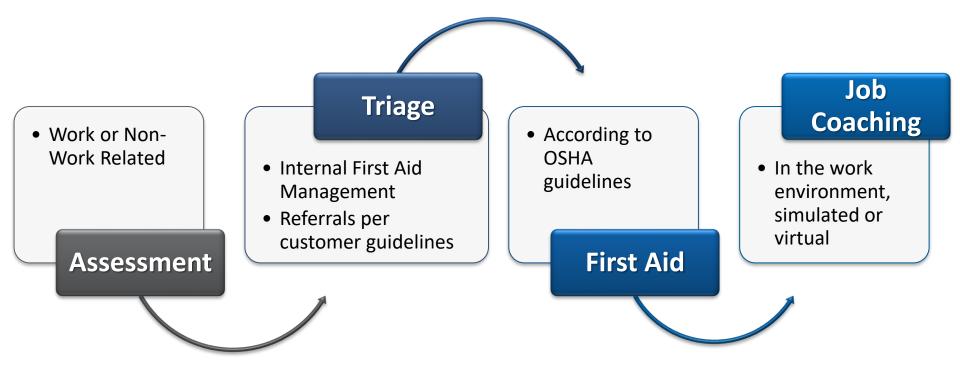




Early Symptom Intervention



Early Symptom Intervention (ESI)







ESI: First Aid

Regulated by OSHA: 1904.7(b)(5)(ii)



ESI: Behavior Modification & Job Specific Coaching

Observation

Communication & Follow Up Risk Factor Identification

Behavior Modification

Ergonomic Control Implementation

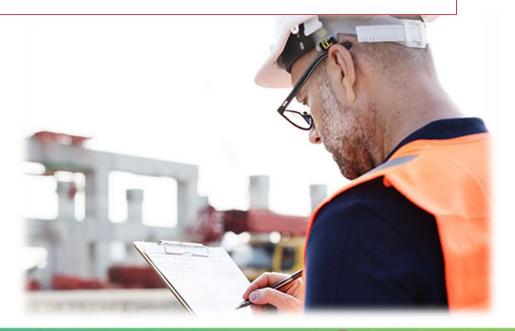
Job Analysis / Injury Prevention Programs



Physical Demands Analysis

Comprehensive analysis of job demands

- Job Description Updates
- Post-Offer Employment Test Development and Stretching program development







Injury Prevention: Custom Stretch & **Strength Programs**

- Customized based on most frequently used muscle groups
- Can be used for prevention or in conjunction with first aid

>> ON THE JOB STRETCHES



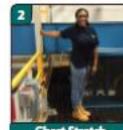
Call Stretch

Stand tacing a wall, approximately arms length away. >> Place right leg back one step with the heel flat on

- the ground and take a step forward with left leg. >> With palms flat on the wall,
- lean forward while keeping the right knee straight, heel flat and back straight.

>> Hold 10 seconds.

>> Repeat 3 times to each side.



Chest Stretch

- >> Standing in a door jam or using a stationary object, put t hand on outside of the door amb/object at chest level.
- >> Step forward until you feel a stretch in chest
- Squeeze shoulder blades. together.



Hamstring Stretch

- on the ground, keeping your
- >> Keeping your back straight, slowly bend forward.
- >> Hold for 10 seconds.
- >> Repeat 3 times on each side.
- >> Hold for 10 seconds.
- >> Repeat 3 times



WORKSTRATEGIES

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Shoulder Stretch

- >> Stand straight with feet shoulder width apart.
- >> Reach across body with right
- >> Grab the right elbow with left hand and genity pull across body:
- >> Keep shoulders and hips pointed straight ahead.
- >> Hold 10 seconds.
- >> Repeat 3 times to each side.





- >> Rotale trunk to the right looking over right shoulder.
- >> Hold for 10 seconds.
- Slowly return to start position.
- >> Repeat 3 times each side.



- >> Stand with your feel shoulder
- width. >> Slowly tilt head to the left bringing the ear to the
- shoulder. >> With the left hand apply gentle pressure to the right side of the head.
- Hold for 10 seconds.
- Repeat 3 times for each side.
- >> Hold for 10 seconds. >> Repeat 3 times for each side.

the right hand.

VDES.

position.

Wrist Extensor

Stretch

>> Straighten left arm in front of

>> Bend hand down, increasing

>> Apply gentle pressure with

wrist angle as far as you can.

>> Keep elbow in straight



Wrist Flexor Stretch

- >> Straighten left arm in front of you with palm up.
- 36 Keep elbow in a straight position.
- >> Extend hand up, increasing the wrist angle as far as you can
- >> Apply gentle pressure with right hand.
- >> Hold for 10 seconds.
- >> Repeat 3 times for each side.



Prevention Programs

New Employee Orientation ✓ Job Conditioning Return to Work Program Best Practices ✓ Work Station Set Up Educational Programs Body Mechanics Audits ✓ Office Ergonomics





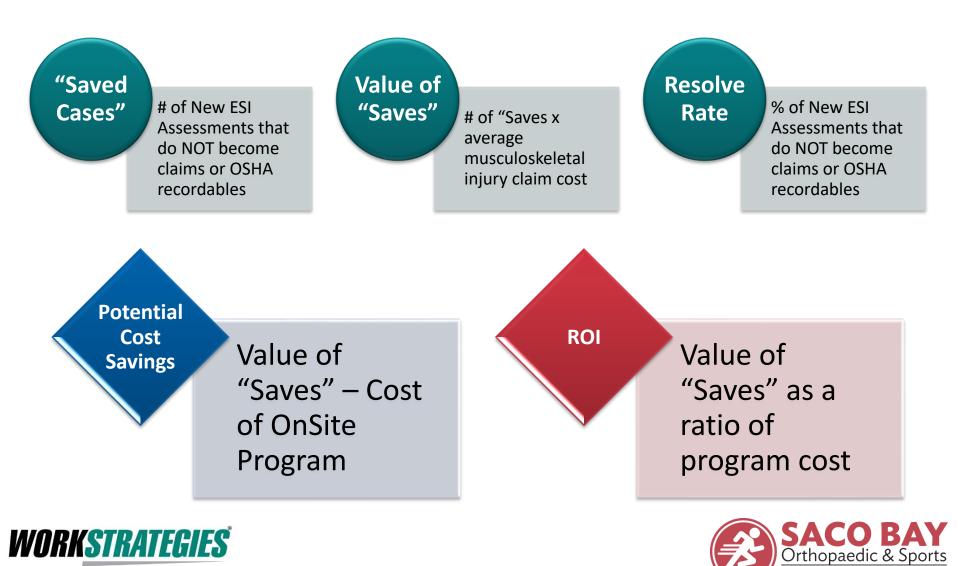
Reporting

- ✓ ESI assessment reports
- ✓ Weekly encounter reports
- Monthly stewardship and OSHA injury tracking
- Annual data review and analysis
 - What information is valuable to you?
 - OSHA Recordables
 - Claim Costs
 - Injury Severity
 - Saves



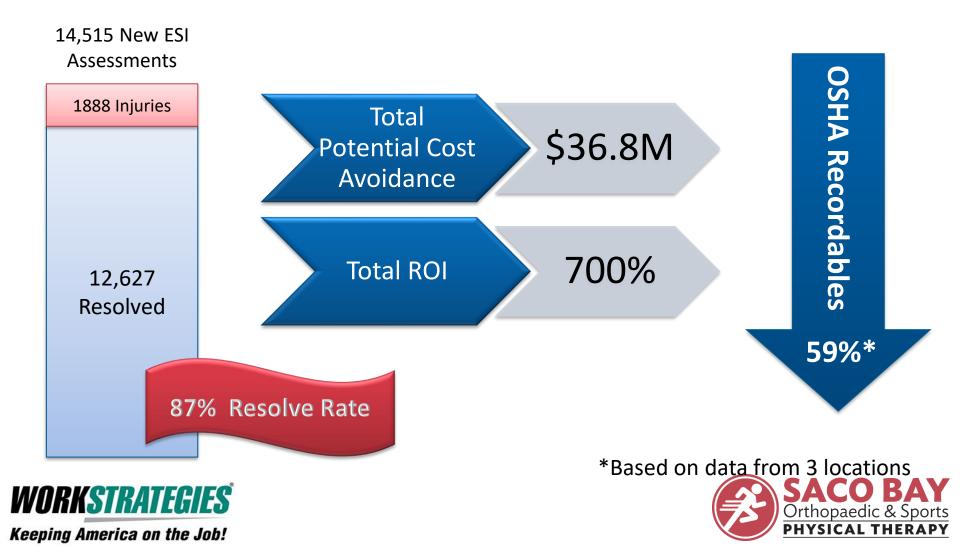


Calculating Return on Investment



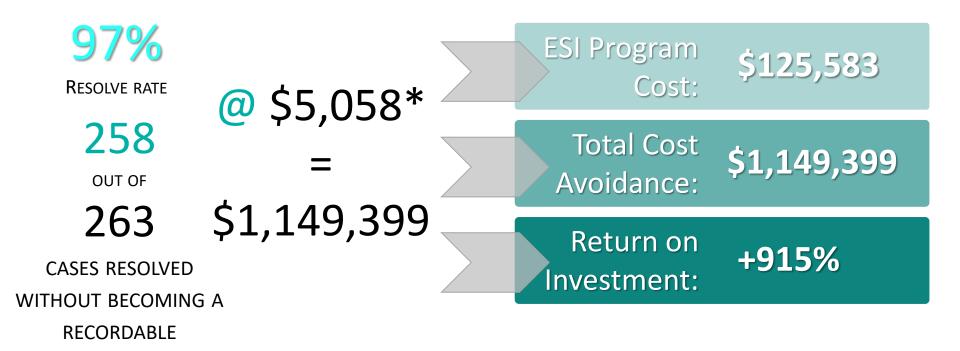
PHYSICAL THERAPY

Return on Investment: Large Package Handling & Transport Company Six Year Demonstrated Savings, Four Locations



Return on Investment: Manufacturing

Two Year Demonstrated Savings, Three Locations



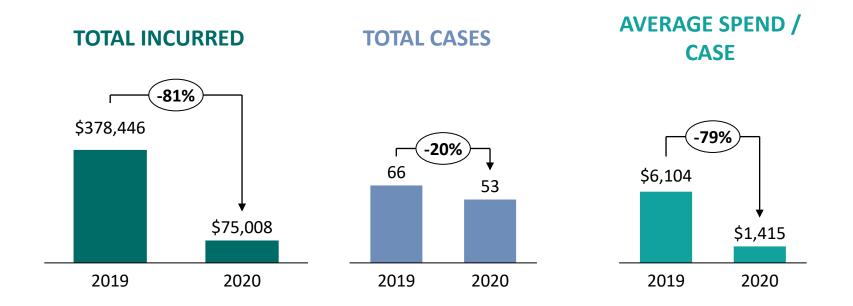
* Average Musculoskeletal Injury Claim Cost





Return on Investment: Food Distribution *One Year Demonstrated Savings, One Location*

Frequency decreased by 13 cases in 2020, but severity decreased by an average of \$4,689 per case (\$303K for the year) *Last Updated in Dec 2020







Return On Investment – Lumber Company clinic based ESI







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Here to serve you and your patients/employees What questions can we answer for you?



