A decade of sports medicine research confirms that moderate warm-up exercise benefits both physical performance and injury prevention.

**Warm-ups help prevent strains and sprains**

In the world of peak-performance sports, and in military training, a decade of scientific research has repeatedly demonstrated that athletic performance increases, and soft tissue injuries decrease, when athletes engage in moderate dynamic warm-up exercises shortly before their event.

**How does this research apply to workplace injury prevention?**

Five to ten minutes of moderate warm-up exercise, done before starting work activity, is now considered a safe and effective method for reducing the incidence and severity of soft tissue injuries.

Moderate is a key concept when warming up. A study by the University of Calgary published in May, 2011, suggests that any warm up exercise, when done for too many repetitions or too long a time period, results in muscle fatigue that reduces both the improved performance and injury prevention benefits.

(Continued)
How does this research apply to workplace injury prevention? (continued)

Static stretching is recommended as a valuable part of a well-rounded fitness or rehabilitation program if the following guidelines are followed.

- Warm up before doing any kind of stretching exercises.
- Avoid stretching immediately before weight lifting, sprinting, or other activities (including work activities) that require explosive muscle power.
- Avoid pain. Experts agree that you should gradually improve your range of motion. It is normal and safe to feel tension increasing during a stretching exercise. But if you start to feel pain, back off the tension a bit.
- Use slow steady motions, and well-balanced positions, when stretching. Be aware that fast motions, or unexpected motions caused by loss of balance, can result in strains and sprains.
- Avoid bouncing motions. “Ballistic stretching” may be appropriate if guided by a well-informed trainer or coach. But bouncing while stretching has the potential to create small muscle tears and stiffness.
- Don’t stretch a recently injured muscle unless directed to do so by your doctor or physical therapist.
- Stretching should be part of a fitness program that includes strength training and cardio; a healthy, injury-resistant body requires all three.

Articles that support dynamic warm up as beneficial for performance improvement and injury prevention


