

Carpal Tunnel Syndrome

Bodywork Treatment Proves Successful

Cathy Ulrich

It started as a vague feeling of numbness in her thumb and first two fingers, then progressed slowly to a definite tingling that woke her several nights a week. "It's not so bad on weekends when I have a chance to rest my arms, but it's now getting in the way of things I like to do at home," says Marie, who spends long hours during the work week typing at her computer keyboard. "I love to knit and cook, and I've had to curb these activities, as well."

Diagnosed with carpal tunnel syndrome, Marie displayed the classic symptoms: soreness in her forearms, pain in her hands at the end of a long day at the computer, and a feeling of tightness that had spread from hands and wrists all the

the same way many times a day over a long period of time, she has literally worn out the tissues involved in that motion. This type of injury -- called a repetitive strain injury, or RSI -- creates tiny tears in the fibers of the soft tissues of the body. While they don't immediately cause loss of function, these micro-tears set up conditions for chronic inflammation that will eventually manifest as pain, soreness, tightness, tingling, and burning.

CTS

The hand and wrist combination work together as an amazing, mechanical anatomical wonder. Imagine a set of ropes and pulleys that travel from the

Ah! There is nothing like staying at home, for real comfort.

-Jane Austen



Working at a computer keyboard for long hours each day can bring on carpal tunnel syndrome.

way to her elbows. And recently, she'd been getting headaches.

Marie has a couple of different options for treating the problem. "My doctor tells me he can operate, but the surgery isn't always successful," she says. "He recommends I try bodywork first."

Because Marie does the same motion in

elbow through the wrist to the finger tips. The muscles reside in the forearm, moving the fingers via long tendons that run through channels in the wrist. The nerves that send and receive sensory and motor information from the brain run alongside the tendons through these same channels.

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When bending or straightening a finger, these tendons slide back and forth, just like cables. When continually working at a keyboard and using the same motion in the same position thousands of times a day -- like millions of Americans do -- the cables begin to wear. And just like threads in a rope, some of the collagen fibers will tear. This process progresses until enough fibers are torn that the body develops inflammation in the tendons and sheaths. Swelling ensues, which pinches the nerves, producing the classic symptoms of tingling, swelling, and even loss of grip strength.

The Bigger Picture

The symptoms of carpal tunnel syndrome may reveal an even bigger problem. The nerves that carry sensory and motor information to the hand arise from the spinal cord in the neck, travel under the collar bone, through the armpit and elbow, all the way to the wrist. A nerve can become entrapped at the neck, shoulder, elbow, or wrist, and an impingement in any of these places can have a cumulative effect on the tingling felt in the hands. These entrapments are usually caused by poor postural habits. The soft tissues become shortened around habitual positions of rounded shoulders and forward head from working long hours at the computer and the channels where the nerves travel through the shoulders and arms can close down. Sound familiar?

Can Bodywork Help?

A recent study conducted at The Touch Research Institute at the University of Miami School of Medicine looked at the efficacy of bodywork in treating carpal tunnel syndrome. Researchers found that after the completion of four massage sessions, the participants experienced an improvement in grip strength and a decrease in pain, anxiety, and depression. Participants also showed improvement in specific medical tests used to diagnose carpal tunnel syndrome.

This landmark study verifies what bodyworkers have observed clinically for years: Massage -- and especially deep tissue techniques, such as neuromuscular therapy, Rolfing, and Hellerwork -- can reorganize the connective tissue fibers, break up scar tissue, and reduce or eliminate the cause

of inflammation. Soft tissue work helps realign these tiny fibers of the tendons and sheaths, and the body can then heal itself -- and ease or even eliminate carpal tunnel syndrome.

Bodywork to the entire arm, shoulder, and neck will also free soft tissues where hidden tightness can contribute to the problem. Soft tissue inflammation can travel through the continuous connective tissue framework from fingertips to head and even cause headaches -- as was the case with Marie. Massage can restore these tissues to normal function.

Other Considerations

In addition to bodywork, it's important to evaluate postural habits, work station positioning, and movement patterns. When workers become so focused on their work that they forget their bodies, they tend to maintain positions that

contribute to the cause. It's important to identify several ways and several positions to accomplish the same thing. Moving the mouse from one side to the other, even during the same day, can help prevent fatigue and tissue failure. Wrist rests and keyboard trays are important, and a regular stretching routine is essential.

Finally, along with exercise and good nutrition, include bodywork as part of your regular health maintenance program. Regular massage reduces connective tissue inflammation and prevents scar tissue from forming. Movement education, such as the Alexander Technique, Feldenkrais Method, structural integration, and Trager Approach can help correct postural issues that also contribute to the problem. Bodywork is a treatment of choice to keep carpal tunnel syndrome from slowing you down.



Massage and bodywork can help mitigate the symptoms of repetitive stress injuries, like CTS.

A Walking Workout

Have Fun While Burning More Calories

Imagine the lone hiker, backpack laden with sleeping bag and bedroll, wielding a well-worn walking stick as she climbs the side of a snow-covered mountain. For centuries, trekkers have used walking sticks, partly as a defense against attacking wildlife, partly to aid in balance, and partly as support on long, arduous climbs. But in recent years, many hikers have replaced the single wooden walking stick with hiking poles.

Held in both hands and used to distribute weight more evenly through the four limbs, wilderness hikers have found poles invaluable for safety, efficiency, and comfort on long hikes. What wilderness hikers have known for some time now is that walking poles are a great way to relieve pressure on knees, ankles, and the back. They encourage better posture and provide a total body workout by engaging the upper body.

Now, hiking poles are showing up in urban areas as fitness walkers discover the benefits they provide. Nordic

walking--similar in technique to cross-country skiing--is a great way to get a whole body workout, increase oxygen consumption, and burn more calories than regular walking or even speed walking. This total body workout burns 40 percent more calories and consumes 25 percent more oxygen. Poles can be purchased at most outdoor sporting stores, along with rubber tips for use on paved paths.

TECHNIQUE

Adjust your poles to approximately 70 percent of your height and loosely secure the straps around your wrists. Hold the poles at an angle behind you so they propel you forward with a slight bend at the elbow. Use an opposite hand-and-heel motion as you walk--right heel strikes as left pole tip contacts the ground. And you're on your way! Don't be shy with your poles. Remember: You're burning 40 percent more calories.

For more information, visit

www.walking.about.com/od/nordicwalking/index.htm.



Add walking poles, and burn more calories.

Sleep and Your Skin

Shelley Burns

We have all encountered a sleepless night or two. Upon waking, we look in the mirror and are traumatized by what we see: puffy eyes, dark circles, droopy eyelids, and sallow skin. To add insult to injury, more wrinkles may be visible due to tossing and turning. Poor sleep for a prolonged time is a recipe for disaster.

There are three hormones affected when we don't get adequate amounts of sleep. These are cortisol, growth hormone, and melatonin, and they all have a direct effect on how our skin ages.

CORTISOL

is our stress response hormone. When we are not sleeping well, we're like a battery that does not have the chance to recharge. Our body identifies this as a stressful situation and starts producing cortisol. Like a jolt of caffeine, this spike in cortisol keeps us moving, but at

a cost. Elevated cortisol levels break down collagen, resulting in less skin elasticity.

GROWTH HORMONE

is responsible for building muscle, bone, and tissue--including skin. It is one of our antiaging hormones that replenishes as we sleep, rehydrating the skin and allowing for cellular repair.

MELATONIN

is our sleep hormone, and it also plays a role in the immune system. It is a significant contributor to the functional and physical integrity of our skin.

Without quality sleep, growth hormone and melatonin are not produced in sufficient quantities, while cortisol is overproduced. The result is overall poor skin condition, including dryness, dullness, fine lines, and wrinkles.

Even how you position your face on your pillow affects your skin. Sleeping on your back will avoid the risk of "sleep lines."

While there are some over-the-counter supplements to remedy sleeplessness, it's far better to eat well, exercise regularly, and develop healthy sleep habits (at least seven uninterrupted hours every night) to let the body regulate its hormones in a natural way. And don't forget to schedule your massage!

Shelley Burns, a doctor of naturopathic medicine, completed studies at the Canadian College of Naturopathic Medicine, and has certification in complementary and integrative medicine from Harvard University.

*If your teeth are
clenched and
your fists are
clenched, your
lifespan is
probably
clenched.*

-Terri Guillemets

As the days get shorter and the temperatures get colder, it is our reminder that winter is quickly approaching. Fall was great while it lasted, now the real fun begins! Safe travels as we all adjust to the new road conditions. Bundle up and stay warm!

Best Wishes,
Vickie

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