

## 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

*"What one  
relishes,  
nourishes."*

-Benjamin Franklin



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.

# Enzyme Power

Lisa VanBockern

As we age, natural exfoliation can take up to 40 days or more, which leads to a buildup of dead skin cells. This means fine lines, uneven skin tone, and in some cases, acne. Incorporating natural fruit enzymes into your skin care regimen is a great way to clean, correct, and polish the skin, as well as deliver nutrition to skin cells.

## Good-Bye Dead Skin

In the late 1800s, papain (found in unripe papaya) was first explored and recognized as an enzyme useful in digesting protein. This makes papaya useful for light exfoliation, as it operates in a way that's similar to digestive enzymes breaking down food in the stomach; it digests dead skin to reveal fresh, healthy cells.

## Fruit Antioxidants

Fruit enzymes also offer antioxidant benefits to the skin. To visualize oxidation, think of an apple that's been cut and left out in the open. It turns brown. Yet, if you squeeze a lemon over

the apple right after slicing it, it stays fresh and looks more appetizing. While we wouldn't want lemon juice (at 100 percent L-ascorbic acid) on our skin, we do want the benefits of a more gentle, buffered substance to stabilize pH and control acidity. Products including fruits like blueberry, kiwi, lemon, pomegranate, and pumpkin provide great antioxidant nutrition to the skin.

## Stay Hydrated

Natural enzymes in the epidermis require water, since water regulates almost every enzymatic action. This raises interesting questions: Do you drink enough water? Do you live in a dry climate or other environment where trans-epidermal water loss is great? If there is not enough water among skin cells, natural enzymes will not kick in. Adding water to your diet will further enhance enzymatic activity.

*Lisa VanBockern is founder and owner of Skin Script Skin Care of Tempe, Arizona. She is a formulator of corrective fruit enzyme products and*

*educates on that topic. Her esthetic focus has been on corrective skin treatments for all ethnicities.*



**Finding products with natural fruit enzymes can boost**

# The Art of Aromatherapy

## Essential Oils Provide Healing and Balance

Aromatic essential oils extracted from herbs, flowers, resin, wood and roots have long been a source of healing, aiding in relaxation, circulation and wound healing. However, the use of these medicinal oils declined as the modern pharmaceutical industry developed. In 1928, French chemist Rene Maurice Gattefosse revived the use of essential oils and developed the art and science of utilizing naturally extracted aromatic essences from botanicals to balance and harmonize the health of body, mind, and spirit. Gattefosse coined the practice aromatherapy.

Because of aromatherapy's affect on emotional health, many practitioners incorporate this noninvasive treatment into their practices. Dispensers or diffusers filled with aromatic essences

may be used to scent the room, and specific essential oils are used on the client's skin during massage. Because each oil has unique characteristics and benefits, the choice of oil or oils can be customized to the client's needs and emotional state. Whether inhaled or applied topically, aromatherapy requires an understanding of how each essential oil interacts with the body, as well as the mind. Many pure essential oils need to be diluted, as they can cause irritation when applied directly to the skin, and training is necessary to guarantee safe and correct usage.

The emotions listed below can be gently eased by one or a combination of the following essential oils:

Anxiety: bergamot, cedarwood, clary sage, frankincense, lavender, patchouli,

Roman chamomile, rose, sandalwood.

Fatigue, Burnout: basil, ginger, grapefruit, jasmine, lemon, peppermint, rosemary, sandalwood.

Stress: bergamot, frankincense, geranium, lavender, mandarin, neroli, patchouli, Roman chamomile, ylang ylang.

Anger: jasmine, neroli, orange, patchouli, petitgrain, Roman chamomile, rose, vetiver, ylang ylang.

*"When the well's  
dry, we know  
the worth of the  
water."*

-Benjamin Franklin

Thank goodness for our mild weather over the winter. Early blooms, birds chirping, budding bulbs, caterpillars, butterflies, tree leaves, . . . . all give us a tapestry to admire in delight with appreciation of our springtime. This area has the pleasure of experiencing four seasons. Wishing everyBODY a lovely spring, Julia

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