

THE SX-ONE MICROKNIFE™ SURGICAL DEVICE

Micro-invasive, Micro-recovery

If you have carpal tunnel syndrome (CTS) and are considering a surgical procedure, Micro-invasive Carpal Tunnel Release (CTR) with the SX-One MicroKnife™ may be right for you.

Developed by doctors at the Mayo Clinic, the SX-One MicroKnife™ is an innovative surgical device that allows your doctor to perform CTR through a tiny incision under ultrasound guidance, or with a traditional mini-open incision without ultrasound guidance.

The SX-One MicroKnife™ utilizes a method that promotes rapid recovery and faster pain relief so you can get back to your life and the activities you love.^{1,2} That's recovery in millimeters, not months.



**Ask your doctor about Micro-invasive CTR
with the SX-One MicroKnife™ today!**

REFERENCES: 1. Nakamichi K, Tachibana S, Ida M. Percutaneous carpal tunnel release compared with mini-open release using ultrasonographic guidance for both techniques. *J Hand Surg.* 2010;35A:437-445. 2. Rojo-Manaute JM, Capa-Grasa A, et al. Ultra-minimally invasive sonographically guided carpal tunnel release: a randomized clinical trial. *J Ultrasound Med.* 2016;37:e37-45. 3. Papatheodorou LK, Sotereanos DG. Treatment recommendations for carpal tunnel syndrome and peripheral nerve repair. *Instr Course Lect.* 2015;64:273-280.

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RECOVERY IN MILLIMETERS, NOT MONTHS



**Micro-invasive Treatment
of Carpal Tunnel Syndrome**

SX-One MicroKnife™

CARPAL TUNNEL SYNDROME (CTS)

What is CTS?

Carpal tunnel syndrome (CTS) is a common condition that causes pain, numbness, and tingling in the hand and arm. The condition occurs when one of the major nerves in the hand—the median nerve—is compressed as it travels through the wrist.

The median nerve runs down the arm and forearm, passes through the carpal tunnel at the wrist, and goes into the hand. It controls movement in the thumb and feeling in the thumb and first three fingers.

Common CTS Symptoms

- Numbness, tingling, burning, and pain in the thumb and index, middle, and ring fingers
- Occasional shock-like sensations that radiate to the thumb and index, middle, and ring fingers
- Pain or tingling that may travel up the forearm toward the shoulder
- Weakness in the hand

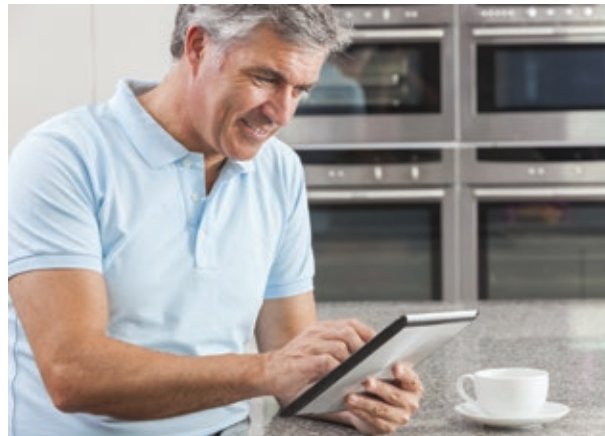
TRADITIONAL TREATMENT OPTIONS

Nonsurgical Treatment

Mild symptoms of CTS can be treated with directed home care, which may include specific exercises, avoiding activities that cause symptoms, or wearing a wrist splint. To relieve pain and reduce inflammation, medications may also be prescribed. In some cases, your doctor may recommend corticosteroid injections.

Carpal Tunnel Release Surgery

More severe cases of CTS may be treated surgically through a procedure called carpal tunnel release (CTR). It involves cutting the transverse carpal ligament (TCL) to relieve pressure on the median nerve. After surgery, the TCL may gradually grow back together with more space in the carpal tunnel, relieving the pressure on the median nerve.



Traditional CTR procedures can remedy the condition but may result in large and sometimes painful scars, ongoing palmar pain, and a long road to recovery.

A NEW WAY TO TREAT CTS FOR FASTER RECOVERY

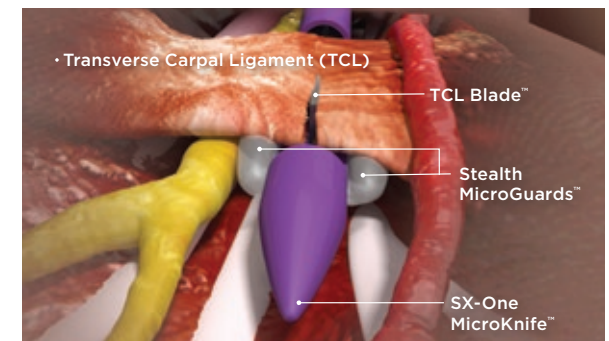
How Micro-invasive CTR Works

Micro-invasive CTR relieves the symptoms of CTS, while minimizing recovery time. The SX-One MicroKnife™ works through an incision that's up to five times smaller than the incision made during traditional CTR³—an incision so small it can be closed with an adhesive bandage or strip.

The technology also enhances the protection of nerves, blood vessels, tendons, and other sensitive anatomy during the procedure.^{1,2} With Micro-invasive CTR you'll have immediate motion and can focus on your recovery right away.^{1,2}

Micro-invasive CTR Under Ultrasound Guidance*

- A 4-5 mm micro-incision is made in the wrist
- Under ultrasound guidance, the SX-One MicroKnife™ is inserted into your wrist through the micro-incision
- Stealth MicroGuards™ are deployed to enhance the protection of nearby nerves, tendons, and other sensitive anatomy during the procedure
- The TCL Blade™ is advanced and cuts the TCL
- The SX-One MicroKnife™ is removed and the micro-incision is closed with an adhesive bandage or strip; sutures or stitches are optional



*Micro-invasive CTR can also be performed with a traditional mini-open incision. Ask your doctor for more information.