

What Is Focused Shockwave Therapy? Benefits, Conditions Treated, and Results



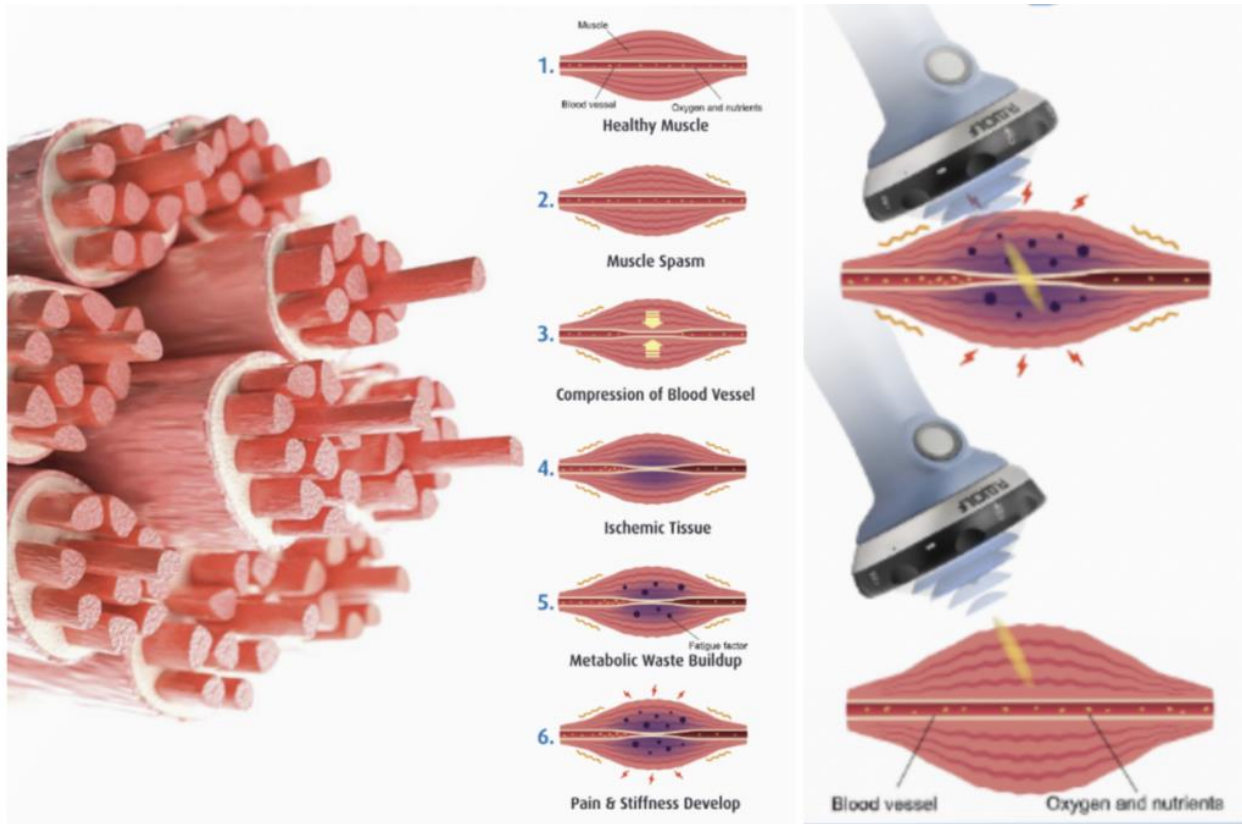
When it comes to non-invasive treatments for pain relief and injury recovery, **Focused Shockwave Therapy** is making waves in the medical and rehabilitation world. This innovative therapy offers a targeted approach to treating chronic pain, musculoskeletal conditions, and soft tissue injuries without the need for surgery or medication. But what exactly is Focused Shockwave Therapy, and how does it deliver such impressive results? Let's dive in.

What Is Focused Shockwave Therapy?

Focused Shockwave Therapy (F-SWT) is a non-invasive treatment that uses precise, high-energy acoustic waves to target damaged tissues deep within the body. Unlike Radial Shockwave Therapy (R-SWT), which disperses energy over a broader area, **Focused Shockwave Therapy** delivers concentrated energy to a specific point. This precision makes it ideal for treating deeper or more localized injuries.

These acoustic waves penetrate tissues to stimulate cellular repair, promote blood flow, and reduce inflammation. The end result is pain relief, improved mobility, and accelerated healing.

How Does Focused Shockwave Therapy Work?



The science behind Focused Shockwave Therapy lies in its ability to stimulate the body's natural healing processes. Here's how it works:

1. **Mechanical Stimulation:** High-energy acoustic waves create microtrauma in the targeted tissues, which triggers the body's repair mechanisms.
2. **Increased Blood Flow:** The therapy promotes angiogenesis, or the formation of new blood vessels, improving circulation to the affected area.
3. **Cellular Regeneration:** Shockwaves stimulate the production of growth factors and collagen, both essential for tissue repair and regeneration.
4. **Pain Reduction:** The therapy disrupts nerve activity, leading to a decrease in pain signals sent to the brain.

With no need for incisions or medications, this therapy offers a safe and effective alternative to traditional treatments.

Benefits of Focused Shockwave Therapy

Focused Shockwave Therapy has quickly gained popularity due to its numerous advantages:

1. **Non-Invasive:** No needles, no incisions, and no downtime.

2. **Targeted Treatment:** The precision of F-SWT allows providers to address specific areas of pain or injury.
3. **High Success Rates:** Studies show significant improvement in pain and function in up to 80% of patients.
4. **Fast Recovery:** Most patients experience noticeable improvements within a few sessions.
5. **Versatility:** Effective for a wide range of conditions, including chronic and acute injuries.
6. **Minimal Side Effects:** Patients may experience temporary redness or soreness, but severe side effects are rare.

Conditions Treated with Focused Shockwave Therapy

Focused Shockwave Therapy is highly effective for a variety of musculoskeletal and soft tissue conditions. Common conditions treated include:



Chronic Tendinopathies

- Tennis elbow (lateral epicondylitis)

- Golfer's elbow (medial epicondylitis)
- Achilles tendinopathy
- Rotator cuff tendinopathy

Plantar Fasciitis

Persistent heel pain caused by inflammation of the plantar fascia can be significantly reduced with Focused Shockwave Therapy.

Calcific Tendinitis

Calcium deposits in tendons, particularly in the shoulder, can cause debilitating pain. Shockwave therapy helps break down these deposits, restoring mobility and function.

Myofascial Pain Syndrome

Tight, painful trigger points in muscles respond well to the deep stimulation provided by focused shockwaves.

Stress Fractures

Focused Shockwave Therapy has shown promise in promoting bone healing for certain types of stress fractures.

Bursitis

Inflammation of the bursa, a fluid-filled sac that cushions joints, can be alleviated with shockwave therapy.

What to Expect During a Focused Shockwave Therapy Session

If you're considering Focused Shockwave Therapy, here's what you can expect during a typical session:

1. **Initial Assessment:** Your provider will evaluate your condition and determine if Focused Shockwave Therapy is right for you.
2. **Preparation:** A gel is applied to the treatment area to help transmit the acoustic waves.
3. **Treatment:** A handheld device delivers the shockwaves directly to the targeted area. The intensity and frequency can be adjusted based on your tolerance.
4. **Duration:** Each session lasts approximately 10-15 minutes.
5. **Post-Treatment:** You may experience mild redness or soreness in the treated area, which typically resolves within 24-48 hours.

Most patients require 5-8 sessions spaced about a week apart for optimal results.

Results of Focused Shockwave Therapy

One of the most appealing aspects of Focused Shockwave Therapy is its effectiveness. Many patients report noticeable improvements in pain and mobility after just one or two sessions. Over the course of treatment, most individuals experience:

- **Reduced Pain:** A significant decrease in both acute and chronic pain levels.
- **Improved Function:** Increased range of motion and better performance in daily activities or sports.
- **Accelerated Healing:** Faster recovery from injuries, allowing you to return to your normal routine sooner.

Studies have shown that the benefits of Focused Shockwave Therapy can last for months or even years, making it a valuable long-term solution for pain management and injury recovery.

Shockwave Research

Shockwave therapy is a proven effective treatment supported by medical literature. There have been extensive studies done on Shockwave Therapy over the past 20 years, including double-blind, randomized, controlled studies indicating up to 91% improvement with 84% success rate for numerous conditions.

Is Focused Shockwave Therapy Right for You?

Focused Shockwave Therapy is a safe and effective treatment option for many individuals, but it may not be suitable for everyone. Contraindications include:

- Pregnancy
- Use of anticoagulant medications
- Presence of a pacemaker
- Treatment over air-filled tissue (lung, gut)
- Presence of local tumor or infection
- Less than six weeks since local corticosteroid injection
- Age less than 18 (except for patients diagnosed with Osgood-Schlatter disease)
- Treatment of pre-ruptured tendons

- Blood-clotting disorders, including local thrombosis

It's important to consult with your healthcare provider to determine if this therapy is appropriate for your specific condition and medical history.

Take the First Step Toward Pain Relief

At **“Hands On” Physical Therapy**, we're proud to offer cutting-edge treatments like Focused Shockwave Therapy to help our patients live pain-free, active lives. Whether you're dealing with chronic pain, a stubborn injury, or limited mobility, we're here to help. Contact us today to schedule a consultation and learn more about how Focused Shockwave Therapy can work for you.

References:

As compared to the depth of penetration from manual therapy vs. extracorporeal shockwave therapy; average session of time extracorporeal shockwave therapy being five minutes; decrease in muscle strain from operating an extracorporeal shockwave device compared to manual therapy on a clinician's hands.

[Cristina d'Agostino M, Craig K, Tibalt E, Respizzi S. Shock wave as biological therapeutic tool: From mechanical stimulation to recovery and healing, through mechanotransduction. Int J Surg. 2015 Dec;24\(Pt B\):147-53.](#)

[Furia JP, Rompe JD, Cacchio A, Maffulli N. Shock wave therapy as a treatment of nonunions, avascular necrosis, and delayed healing of stress fractures. Foot Ankle Clin. 2010 Dec;15\(4\):651-62.](#)

[Ciampa AR, de Prati AC, Amelio E, Cavalieri E, Persichini T, Colasanti M, Musci G, Marlinghaus E, Suzuki H, Mariotto S. Nitric oxide mediates anti-inflammatory action of extracorporeal shock waves. FEBS Lett. 2005 Dec 19;579\(30\):6839-45.](#)

[Gollwitzer H, Saxena A, DiDomenico LA, Galli L, Bouché RT, Caminear DS, Fullem B, Vester JC, Horn C, Banke IJ, Burgkart R, Gerdesmeyer L. Clinically relevant effectiveness of focused extracorporeal shock wave therapy in the treatment of chronic plantar fasciitis: a randomized, controlled multicenter study. J Bone Joint Surg Am. 2015 May 6;97\(9\):701-8.](#)

[Gollwitzer H, Diehl P, von Korff A, Rahlfs VW, Gerdesmeyer L. Extracorporeal shock wave therapy for chronic painful heel syndrome: a prospective, double blind, randomized trial assessing the efficacy of a new electromagnetic shock wave device. J Foot Ankle Surg. 2007 Sep-Oct;46\(5\):348-57.](#)

[Ulusoy A, Cerrahoglu L, Orguc S. Magnetic Resonance Imaging and Clinical Outcomes of Laser Therapy, Ultrasound Therapy, and Extracorporeal Shock Wave Therapy for Treatment of Plantar Fasciitis: A Randomized Controlled Trial. J Foot Ankle Surg. 2017 Jul - Aug;56\(4\):762-767.](#)

[Rompe JD, Decking J, Schoellner C, Nafe B. Shock wave application for chronic plantar fasciitis in running athletes. A prospective, randomized, placebo-controlled trial. Am J Sports Med. 2003 Mar-Apr;31\(2\):268-75.](#)

[Gerdesmeyer L. Current evidence of extracorporeal shock wave therapy in chronic Achilles tendinopathy.NCBINCBI Logo Int J Surg. 2015 Dec;24\(Pt B\):154-9. doi: 10.1016/j.ijisu.2015.07.718. Epub 2015 Aug 29.](#)

[Nedelka T.Mechano-transduction effect of shockwaves in the treatment of lumbar facet joint pain.Neuro Endocrinol Lett. 2014](#)

[Schmitz C. Efficacy and safety of extracorporeal shock wave therapy for orthopedic conditions: a systematic review on studies listed in the PEDro database.Br Med Bull. 2015;116:115-38. doi: 10.1093/bmb/ldv047. Epub 2015 Nov 18.](#)

[Ogden JA. Shockwave therapy for chronic proximal plantar fasciitis: a meta-analysis.Foot Ankle Int. 2002 Apr;23\(4\):301-8](#)

Operation & Installation Instructions for Mobile 2 RPW USA (Radial Pressure Wave)
REF 2905-US..

Focus Shockwave Operating Manual (Chattanooga)

[McClure S, Dorfmueller C. Extracorporeal shock wave therapy: Theory and equipment. Clin Tech Equine Pract 2003;2:348-357.](#)

[S. Broadbent, JJ. Rousseau, RM. Thorp, SL. Choate, FS. Jackson, DS. Rowlands. Vibration therapy reduces plasma IL6 and muscle soreness after downhill running. 2010 Sep;44\(12\):888-94](#)