

# Extracorporeal Magnetotransduction Therapy (EMTSF pro)

Activating New Regenerative and  
Restorative Possibilities in Treatment  
and Rehabilitation



*Innovative Technologies for Advanced Healing*

# What is Extracorporeal Magnetotransduction Therapy (EMTSF pro)?

Extracorporeal Magnetotransduction Therapy (EMTSF pro), a form of magnetic therapy, opens up a formerly unimaginable world of possibilities in regeneration and rehabilitation. Because EMTSF pro enables practitioners to broaden the scope of treatment options offered to patients to address musculoskeletal disorders and tendinopathies it's a treatment game changer.

This transformational technology is another way to help patients get better faster without surgery, unnecessary risk, or downtime.

The EMTSF pro device is remarkable and makes possible a full range of applications while ensuring patient comfort and ease of use for practitioners. Important to note – EMTSF pro is powered by state of the art engineering and backed by numerous clinical studies which affirm its safety and efficacy.



## Contents

- 2.What is Extracorporeal Magnetotransduction Therapy (EMTSF pro) ?
- 3 Primary Indications for Use of EMTSF pro
- 3.The Advantages of EMTSF pro
- 4 .EMTSF pro Technology: Facts, Figures, and Parameters
- 5.EMTSF pro in Practice
6. Q and A Featuring
- 7.Conclusion
8. Ready to Harness the Power of EMTSF pro?

## Primary Indications for the Use of EMTSF pro

EMTSF pro provides a revolutionary means to treat numerous musculoskeletal disorders and a variety of pain syndromes. Most notably, this technology is backed by significant research and has shown to be highly successful in the regeneration and rehabilitation of complicated conditions. Medical professionals are incorporating Extracorporeal Magnetotransduction Technology to treat the following:

**The EMTSF pro is indicated for the following by the FDA:**

- Relaxation of muscle spasms
- Prevention of retardation of disuse atrophy
- Increasing local blood circulation
- Muscle re-education
- Immediate post-surgical stimulation of calf muscles to prevent venous thrombosis
- Maintaining or increasing range of motion

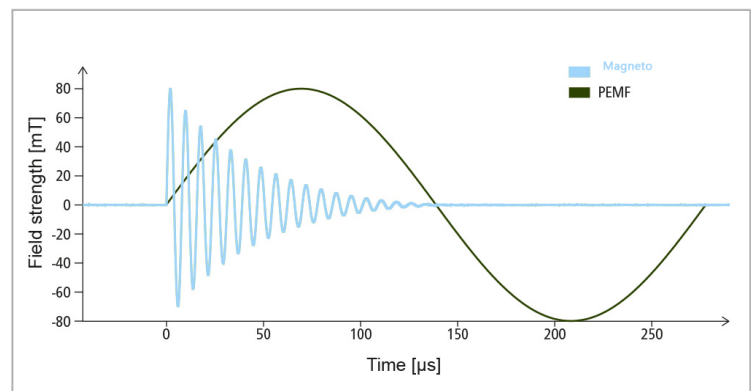
## Did You Know?

- **“More than 1 in 2 adult reported a musculoskeletal medical condition.”<sup>1</sup>**
- **“Musculoskeletal disorders impair quality of life: 52% of those suffering report it impacts activities of daily living—that’s higher than any other condition.”<sup>2</sup>**



## The Advantages of EMTSF pro

With the advent of Extracorporeal Magnetotransduction Therapy (EMTSF pro), medical professionals are now able to offer patients a superior tissue healing technology that provides a more comfortable and streamlined experience than was formerly available. Patients find that treatment with the EMTSF pro is entirely painless, and medical professionals will find the treatment easy to administer.



## Explore the advantages of EMTSF pro at a glance:

- Evidence-based
- Suitable for a wide range of applications
- Non-invasive and non-contact outpatient treatment – with almost no side effects
- Used for a broad range of musculoskeletal disorders and diseases
- Wide range of treatment options
- High level of patient comfort and easy to use
- EMTSF pro is an exceptional complement to Magneto

EMTSF pro offers an exceptional solution to patients who have debilitating musculoskeletal disorders and other pain syndromes. With proven impressive outcomes, this technology allows patients to regain freedom of movement quickly and efficiently and vastly improve their quality of life. Medical professionals who incorporate this technology in their continuum of care have an opportunity to change patient lives significantly, all while growing their practice.

## EMTSF pro Technology: Facts, Figures, and Parameters

**Due to its high oscillation frequency of 2—4 kHz, EMTSF pro differentiates itself from other technologies and allows for deeper penetration thus broadening the range of applications.**

The arrival of this exciting electromagnetic therapy here in the U.S. means that medical practitioners can offer superior tissue healing technology and methodology to their patients sooner rather than later. EMTSF pro further equips physicians and medical professionals to provide a safe, comfortable, effective, and streamlined treatment experience.

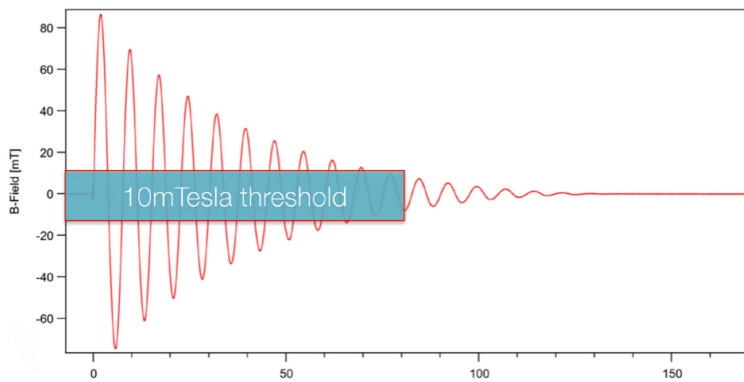
While EMTSF pro relies on a different operating mechanism than ESWT (Extracorporeal Shock Wave Therapy) does, the two modalities are highly complementary and effective when used together. With ESWT, the mechanism of action essentially depends on high-energy acoustic-physical signals in a local treatment area. In contrast, EMTSF pro acts using high-energy magnetic field technology in the regional trauma area.

### Here are the highlights on EMTSF pro:

- High oscillating frequency with high penetration depth (2-4KHz)
- The device provides continuous and reliable operation with an air cooled applicator
- Simple plug in and plug out to change the applicator
- Integrated touch display to adjust energy level, frequency, and pulse rate
- Flexible holding arm and one locking knob for easy positioning
- Effectivity and safety are proven in studies

### Magneto Parameters

|                                                      |            |
|------------------------------------------------------|------------|
| Oscillation frequency                                | 4 kHz      |
| Oscillations per pulse                               | >15        |
| Maximum field strength (at the coil)                 | 0.6 T      |
| Magnetic field strength (4cm distance from the coil) | 60 mT      |
| Performance of the magnetic field (dB max/dt)        | 65.300 T/s |



## A Single EMTSF pro Pulse

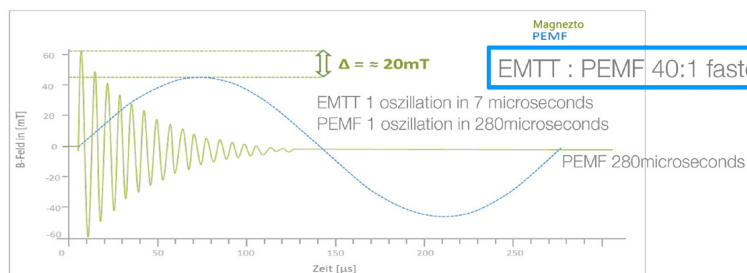
## EMTSF pro in Practice



EMTSF pro is simple to use and operate in a clinic environment. Patients receiving EMTSF pro treatment do not have to disrobe; it's a simple in-office procedure. Additionally, the device is proven effective and offers fatigue free operation for medical professionals, with pulses and frequency adjustable up to 10 pulses per second.

To treat, simply position the applicator directly above the region of the body being treated. The procedure typically takes from 5 to 20 minutes depending upon the indication and frequency and may be repeated up to 8-12 times over several weeks.

$$dB(t)/dt|_{\max} = \omega B_0 = 2 \cdot \pi \cdot f \cdot B_0$$



**Mathematical  
Approximation  
Effective  
Transduction  
Power**



### Q: What are the advantages of EMTSF pro

EMTSF falls on the spectrum of treatments between shockwave and laser. We typically combine multiple treatments, depending on the patient's diagnosis and degree of pathology/inflammation. EMTSF has a more anti-inflammatory effect on tissue, whereas shockwaves typically have a transient inflammatory effect followed by the expected proliferative and remodeling healing phase.

**Q: Are you using EMTSF pro in combination with shockwave? If so, how and when are you using them together?**

"The EMTSF pro plus shockwave combination seems very effective when we are treating shoulder, hip, sacroiliac, and bone marrow pathology. For some reason, patients are able to "feel " the EMTSF pro being delivered when we are treating these areas while not as much when we are treating ankles, elbows, or hands. I'm not sure why this is, but patients definitely like the idea of being able to "feel" the therapy being delivered. When combining shockwave and EMTSF pro, we are typically doing weekly shockwave and twice weekly EMTSF pro treatments. That being said, I'm continually looking at how each patient progresses when these technologies are used.

**Q: In what areas does EMTSF pro bring the greatest success and hope to patients?**

It is exciting to see how effective EMTSF is for spine patients. Especially those with painful vertebral endplate edema. This is a notoriously difficult disease to treat, and it would be great if EMTSF could have even a small effect on these hard-to-reach lesions. There is some initial promise in treating chronic painful and tight iliacus lesions.

The distal iliacus is a difficult muscle to treat with injections, but it can be treated well with EMTSF.

**Q: Specific conditions successfully treated with EMTSF**

"Painful labral tears of the hip. Sacroiliitis. Painful BML of the knee cervical facet OA. Supraspinatus/ACJ OA.

**Q: Any EMTSF pro " ah-ha! " moments?**

"A single EMTSF pro treatment took a colleague's acute cervical facet OA pain from a 10/10 to a 0/10 within minutes. This was during the first week . And her pain hasn't bothered her since!"

Shockwave and EMTSF pro can detect and treat pain at the same time

"Although this is similar to how we see direct muscle activation with electrical stimulation (TENS), with EMTSF pro, it is happening in deeper muscle groups than is possible with TENS. It is interesting to me that we do not see muscle stimulation in all parts of the body. Interestingly, we don't see any muscle stimulation at the ankle, knee, elbow, or wrist. I know this is the case because I have applied EMTSF pro to almost every muscle group in my body!"

**EMTSF is simple to operate and can be seamlessly integrated into clinical practice.**

The EMTSF is an extremely powerful tool for clinicians practicing musculoskeletal medicine. Particularly when dealing with spinal issues, the EMTSF has the potential to help treat conditions that are difficult to treat, including disc/nerve root/vertebral endplate issues.



## EMTSF pro Case Presentation:

A 55 y.o. male acute left sensory radiculopathy after kiteboarding injury. MRI Confirmed foraminal HNP at left . OTC NSAIDs providing minimal relief. Patient not interested in taking steroids, gabapentin, etc. To date, traction and chiropractic therapy only partially helpful. Prefers to avoid spinal steroid injections.

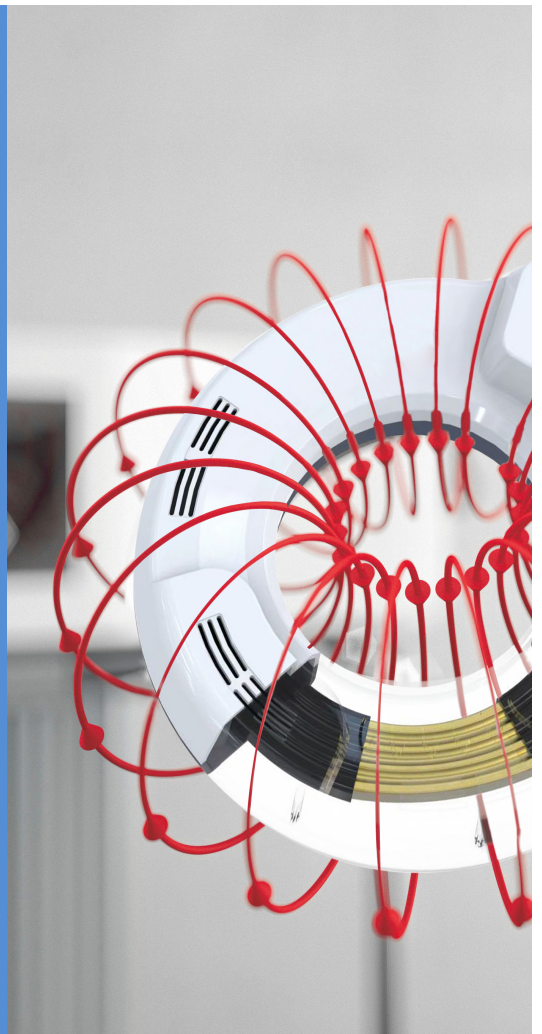
**Patient was provided EMTSF pro treatment which included weekly sessions x 4-6 weeks.**

**Week 1:** Wand applied to left L3-L4 level. Parameters: Power level 8/8 Hz/6000 pulses

**Week 2:** Identical therapy

**Week 3:** Sensory symptoms completely absent, and additional EMTSF pro treatment not required.

**Week 8:** Patient remained asymptomatic after only 2 EMTSF pro sessions. No other treatment had been performed since the second EMTSF pro session and the patient has resumed full sporting activities without restrictions.



## Conclusion

EMTSF pro has opened new pathways and possibilities for the regeneration and rehabilitation of musculoskeletal disorders and tendinopathies. **This breakthrough technology is a perceived disrupter in medicine — offering the latest innovative way to get patients better swiftly and efficiently, without unnecessary risk or the need for surgery.**

EMTSF pro is a technology backed by a body of clinical evidence and proven to facilitate extraordinary regenerative healing.

## Additional EMTSF pro Information and Resources

Clinical evidence. Compelling research. Inspiring insights from both medical peers and patients. The more you know about shockwave and EMTSF pro from CuraMedix, the more effectively you can integrate them into your practice.

### EMTSF pro :

- [Accelerate Healing with Restorative Medicine Technologies](#)
- [Musculoskeletal Disorders: Impact and Regenerative Solutions](#)
- [What is Extracorporeal Magnetotransduction Therapy \(EMTSF pro\)?](#)
- [Unveils the New Magneto](#)

