

**MAGNETOLITH®**  
Extracorporeal Magneto-  
transduction Therapy (EMTT®)



## Extracorporeal Magnetotransduction Therapy (EMTT®)



Static treatment of shoulder with holding arm

Extracorporeal Magnetotransduction Therapy (EMTT®) with the MAGNETOLITH® opens up new possibilities in regeneration and rehabilitation. The areas of application include diseases of the musculoskeletal system such as lower back pain, tendinopathies of the rotator cuff or achilles tendon.

EMTT® differs from general forms of magnetic field therapy or PEMF due to the high oscillation frequency of 100 – 300 kHz. This property enables a high penetration depth (18 cm) and a large range of indications.

### At a glance

- Non-invasive, ambulant therapy – no reported side effects
- Wide range of therapeutic applications
- High oscillating frequency with deep penetration

## References of significant therapeutic effects with STORZ MEDICAL EMTT® devices

**Krath, A. et al.**, Journal of Orthopaedics, 14(3):410-415, 2017.

Electromagnetic transduction therapy in non-specific low back pain: A prospective randomised controlled trial

**Klüter, T. et al.**, Electromagnetic Biology and Medicine, 37(4):175-183, 2018.

Electromagnetic transduction therapy and shockwave therapy in 86 patients with rotator cuff tendinopathy: A prospective randomized controlled trial.

**Gerdsmeyer, L. et al.**, The Journal for Foot and Ankle Surgery, 56(5):964-967, 2017.

Electromagnetic Transduction Therapy for Achilles Tendinopathy: A Preliminary Report on a New Technology.

**Klüter, T. et al.**, Journal of Orthopedic Research and Therapy: JORT-1113. DOI: 10.29011/2575-8241.001113, 2018.

Electromagnetic Transduction Therapy in Patients with Chronic Aseptic Osteitis Pubis

**Ringelsen, M., Ludger, G.**, Presentation at the annual congress of the umbrella association osteology (DVO), March 2018, Dresden.

Therapy of traumatic/mechanical bone marrow edema with electromagneto-transduction therapy [in German].

## The MAGNETOLITH® in daily practice

Treatment with MAGNETOLITH® is comfortable and straightforward:

- The patient does not have to undress
- Effective fatigue-free work for the user
- Applicator positioning by hand or with the flexible holding arm
- A treatment session lasts between 5 – 20 minutes depending on the indication
- Adjustable frequency up to 10 pulses/s

Dynamic treatment of ankle joint



## EMTT® Highlights

- High-frequency magnetic field (100 – 300 kHz)
- Continuous and reliable operation by water-cooled applicator
- Click & Connect mechanism for a flexible applicator positioning
- Simple plug in & plug out to change applicator
- Integrated touch display to adjust energy level, frequency and pulse rate

Intuitive operation thanks to clear touch display



Applicator for ease of use



## Typical indications

### Musculoskeletal diseases

- Degenerative joint diseases  
Signs of wear and tear, e.g. arthrosis (knee, hip, hands, shoulder, elbow), herniated disc, spondylarthrosis
- Pain therapy  
(Chronic) pain, e.g. back pain, lumbalgia, tension, radiculopathies, heel pain
- Sport injuries  
(Chronic) inflammation of tendons and joints, tendon overload syndrome, osteitis pubis