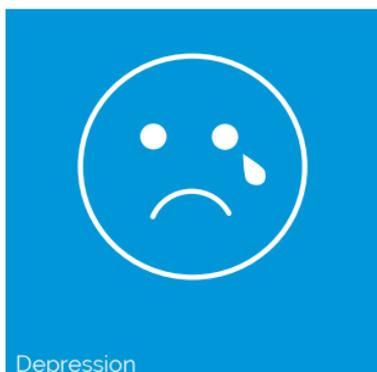


# TMS

TRANSCRANIAL MAGNETIC STIMULATION

*Drug-free treatment for Depression and expanded access for following disorders:*



MAG & more



**MAG & More**

»MAG & More« is a privately owned company that has focused on the development and the production of magnetic stimulators and coils for almost 20 years. Our medical products are manufactured according to strict medical guidelines and are used worldwide in hospitals and private practices for research and therapy.

**Prognosis:**

●●●●● = Treatment option

●●●●○ or less = expanded access

**TMS**

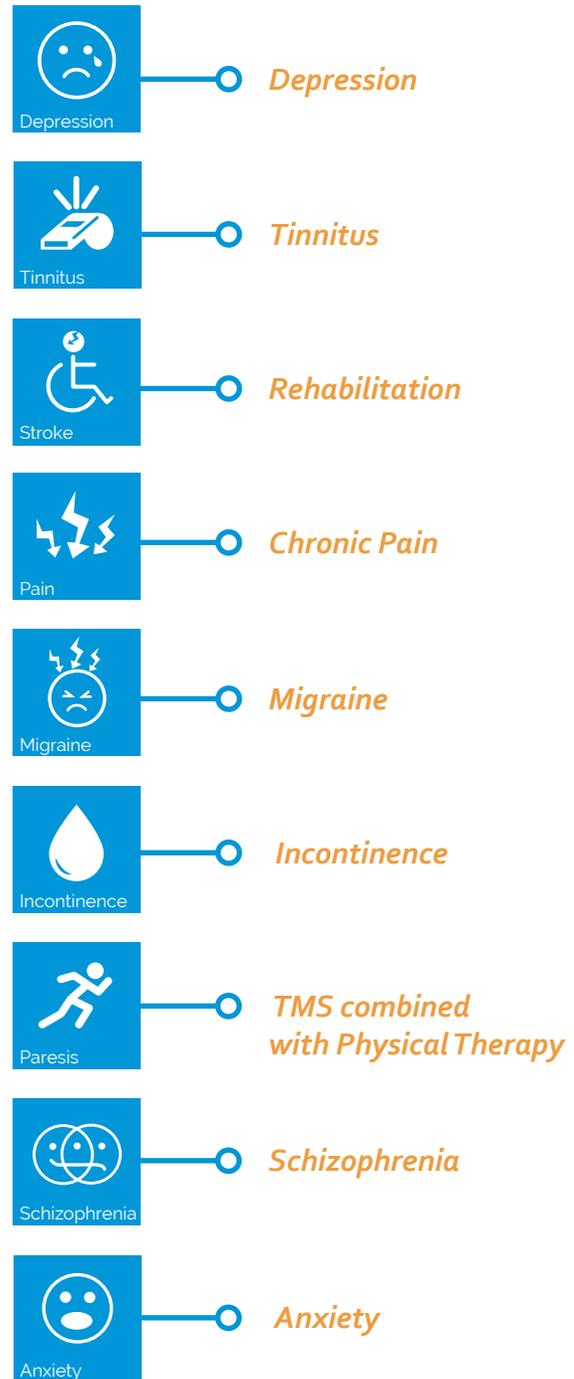
Transcranial magnetic stimulation (TMS), stimulates the brain, by means of a magnetic field, **non-invasively** through the skull and **nearly without pain** (trans lat. = through; cranium lat. = the skull).

By comparison, TMS is a simple-to-use, **mild and gentle**, ambulant treatment method. As of now it is often used with patients who do not (or hardly) react to traditional standard therapies, or often as a supplement to such therapies.

TMS elicits effects through **electromagnetic induction**. A strong current runs for a short amount of time through a coil, inducing a magnetic field which in turn creates an electric field in the outer regions of the brain, there modulating neural activity. This way brain regions can be specifically **facilitated or inhibited**. The strength of the magnetic fields can be compared to that of an MRI scanner and is regarded as safe.

**Where can I get TMS treatment?**

TMS treatment is available at select hospitals and private practices. If you are interested in offering this innovative treatment method or are interested in additional information materials please do not hesitate from contacting us.





Depression

## Depression

The most common form of depression shows a typical activity pattern in the brain: neurons in the left prefrontal cortex are inhibited while neurons in the right prefrontal cortex are overactive. Certain TMS applications activate left prefrontal areas. A TMS treatment is particularly suited when medical treatments have been without success or are not an option and electroconvulsive therapy is not yet feasible. TMS can also be applied in combination with traditional treatment methods.



Tinnitus



Stroke



Pain



Migraine



Incontinence



Paresis



Schizophrenia



Anxiety

## Treatment of Depression with TMS

### Therapy duration:

3-4 weeks,  
5 sessions per week

### Session length:

10 minutes

### Treatment location:

Left dorsolateral prefrontal cortex (DLPFC)

### Prognosis:



### Equipment:

Stimulator: MAG & More PowerMAG  
Coil: Double coil PMD70-pCool





## Tinnitus

The disturbing sounds usually originate from a compensatory hyperactivity of parts of the cortex. A TMS treatment can control the over-excitation of the auditory cortex and thus stop or at least mitigate the noise.

## Treatment of Tinnitus with TMS

**Therapy duration:**  
2 weeks,  
5 sessions per week

**Session length:**  
30 minutes

**Treatment location:**  
Left gyrus of Heschl

**Prognosis:**  
●●●○○

### Equipment:

Stimulator: MAG & More PowerMAG  
Coil: Double coil PMD70-pCool





## Stroke - Rehabilitation

A high neural activity supports the healing process after a stroke. Unfortunately, the damaged area is often subjected to suppressing signals from the healthy cerebral hemisphere which is hyper-active due to compensation. TMS procedures usually indirectly support the neural functionality in the affected area by either inhibiting the overactive hemisphere or by directly stimulating both hemispheres, synchronously activating the affected hemisphere.

## Rehabilitation with TMS

### Therapy duration:

10 sessions,  
1 session per day

### Session length:

25 minutes TMS,  
45 minutes physical therapy

### Treatment location:

Primary motor cortex

### Prognosis:



### Equipment:

Stimulator: MAG & More PowerMAG  
Coils: Double coil PMD70 oder PMD70-pCool  
Navigation: PowerMAG View!





**Pain**

Neuropathic pain such as trigeminal or phantom limb pain originates within the nervous system itself. Usually, this type of pain is treated by actively stimulating the motor cortex. Pain relief often occurs after the first TMS treatment and can last for several weeks.

**Treatment of Chronic Pain with TMS**

**Therapy duration:**

Up to 10 sessions,  
1 session per day

**Session length:**

Between 10 and 24 minutes

**Treatment location:**

Motor cortex

**Prognosis:**



**Equipment:**

Stimulator: MAG & More PowerMAG  
Coil: Double coil PMD70-pCool





## Migraine

Migraines cyclically lower the quality of life. TMS therapy is split up into acute pain treatment and prophylaxis. Both approaches show effects. The treatment of acute migraine attacks is recommended for patients with aura, while the prophylactic method shows success in both patient groups.

## Treatment of Migraine with TMS

### Therapy duration (Prophylaxis)

3 sessions on alternate days

### Session length (Prophylaxis):

8 minutes

### Treatment location:

Primary motor cortex

### Prognosis:



### Equipment:

Stimulator: MAG & More PowerMAG

Coil (Prophylaxis): Double coil PMD70-pCool





## Incontinence

*It is important to strengthen the muscles of the pelvic base for any type of incontinence. Magnetic stimulation can support training and, if required, replace it. The treatment coil is placed on the seat of a chair and the patient can remain dressed. The procedure is more comfortable than traditional electric stimulation and is usually painless.*

## Treatment of Incontinence with TMS

### Therapy duration:

6 weeks,  
18 sessions

### Session length:

20 minutes

### Treatment location:

Pelvic base muscles

### Prognosis:



### Equipment:

Stimulator: MAG & More PowerMAG  
Coil: Round coil PMR-Incontinence





## Paresis

*In partial paralysis, peripheral magnetic stimulation powerfully activates nerves and muscles on the surface as well as subjacent ones. It loosens hypertension and allows for functional training. This method also alleviates pain in the locomotive system. TMS can be applied as an alternative method or in combination with traditional methods.*

## TMS

### combined with physiotherapy

#### Therapy duration:

2-4 weeks,  
2-5 sessions per week

#### Session length:

10 minutes

#### Treatment location:

affected areas or nerve pathways proximal to the target muscles

#### Prognosis:



#### Equipment:

Stimulator: MAG & More PowerMAG  
Coil: Round coil PMD110





## Schizophrenia – auditory hallucinations

A hypofunction of the left dorsolateral prefrontal cortex is typical for this disease. Stimulating this part of the brain with TMS counteracts the hypofunction and supports treatment. Additionally in case of auditory hallucinations, affected auditory regions in the temporoparietal cortex are hyperactive and can be suppressed with TMS.

## Treatment of Schizophrenia with TMS

### Therapy duration:

3 weeks,  
15 sessions

### Session length:

13 minutes

### Treatment location:

Dorsolateral prefrontal cortex (DLPFC)

### Prognosis:



### Equipment:

Stimulator: MAG & More PowerMAG  
Coil: Double coil PMD70-pCool





## Anxiety

Suppressing activity of the right dorsolateral prefrontal cortex with TMS can be efficacious towards mitigating panic disorders. TMS procedures that activate prefrontal areas focally or extensively can also be applied for treating post-traumatic stress disorders.

## Treatment of Anxiety with TMS

### Therapy duration:

10 sessions  
over 2 weeks

### Session length:

20 minutes

### Treatment location:

right dorsolateral prefrontal cortex

### Prognosis:



### Equipment:

Stimulator: MAG & More PowerMAG  
Coil: Double coil PMD70-pCool



### **Contraindications**

When applied accurately and according to safety regulations, TMS is an unproblematic and safe procedure. Essentially, TMS is subject to the same contraindications as an MRI.

We will gladly inform you about further contraindications at our trainings/courses or of course directly at on-site visits.

### **Side effects**

One of the huge advantages of TMS is that there are hardly any side effects in comparison to traditional procedures, in particular pharmacotherapy. If there are any, they only appear during or right after treatment and typically disappear shortly after without any need for countermeasures.

Of course patients need to be advised about all theoretically possible side effects even if they occur very seldomly. We will gladly advise you about all possible side effects.

### **Payment options**

Depending on the treated disorder and/or treatment site, there are already a number of payment options available today for this innovative treatment method. We are always happy to advise you about all the different options for payment in your individual case.

### MAG & More's Advantages

- Almost 20 years of experience
- Specialization in the development and manufacturing of stimulators and accessories
- Training courses offered regularly
- Made in Germany – sale and service directly from the manufacturer

### Advantages of MAG & More products

- High-performance stimulator (i.e.. 80% at 50 Hz)
- Efficient pulse length of only 160  $\mu$ s at full-wave = two-phase pulse
- Constant pulse intensity with e.g. TBS (Theta Burst Stimulation)
- Unique software-based PC operation (incl. patient database)
- Ongoing development in accordance with customer needs
- All certifications available, e.g. ISO 13485, IEC 60601-1 (Made in Germany)
- Modular systems with upgrading options
- High life expectancy without limitations, i.e. no „artificial“ lifespan limit (neither for coils nor stimulators)

You can find more information on TMS at:

[www.therapy-tms.com](http://www.therapy-tms.com)

We will gladly answer your questions at:

[contact@therapy-tms.com](mailto:contact@therapy-tms.com)



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