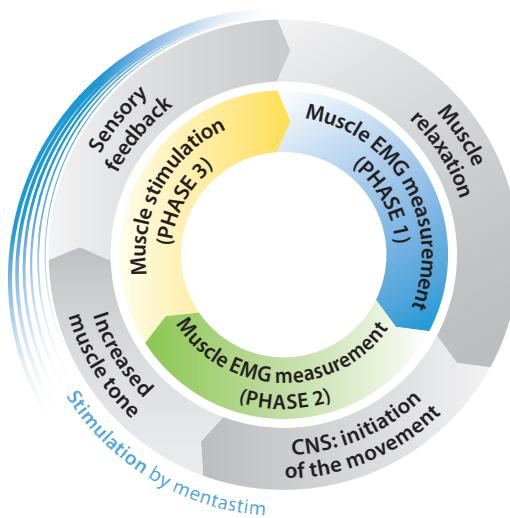


Therapy procedure

Treatment is according to the principle of EMG-triggered electrostimulation. The muscle potential at the paralysed muscle group is measured in the form of the EMG value using electrodes. By purely imagining a targeted movement with the paralysed muscle group, the EMG potential in the corresponding muscle increases. Where this potential reaches a threshold value that has previously been set by your therapist, the device triggers a light electrical stimulation at the muscle group. The electrical impulse serves as positive feedback to the brain that the movement has been performed.

The brain begins to store the movement pattern again. You can learn movements again by means of continuous use with mentastim.



Therapy costs

Reimbursement or private health benefit
mentastim is a prescribable home therapy system. If your doctor prescribes mentastim as a useful adjunct to your therapy, the costs for the therapy are generally assumed by the medical insurance company.

If your medical insurance does not reimburse you, you as the patient have an option to use mentastim therapy as a private health benefit.

You can find more information on our website at www.mentastim.com or via your specialist dealer.

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Impulse for a new awareness of life
EMG-controlled electrical stimulation for learning motor movement sequences.

Manufacturer details

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TQ-Systems GmbH is certified by TÜV Süd as per DIN EN ISO 13485:2012/AC:2012 and
Guideline 93/42/EWG (MDD) Appendix VI for Medical Devices, DIN EN ISO 9001:2008 (Quality
management system) and DIN EN ISO 14001 (Environmental management)

mentastim has been developed for the treatment of pareses after damage to the central nervous system.

mentastim

EMG-triggered electrostimulation:
mentastim assists you in relearning motor skills.

»Imagine ...
... regaining control of your muscles and performing targeted movements.«

After damage occurs to the central nervous system, nothing is the same as it once was. For example, the arms or legs cannot be moved, or can only be moved to a limited degree. Targeted actuation of the musculature is only possible under some circumstances or is not possible at all, due to the damage. However, the brain can learn to actuate paralysed extremities again.

mentastim helps you to relearn movement patterns and to move the arm, the hand or leg again in a targeted manner.

Give your brain some assistance

The brain is capable of reorganizing itself and storing lost movement patterns in areas that have not been damaged. mentastim uses and supports this capability, known as neuroplasticity, using the principle of EMG-triggered electrostimulation of the nervous system.

Neurostimulation of the muscle groups to be treated positively supports reorganization by means of relevant feedback/stimulation to the brain and allows movements to be relearnt.

Indications where mentastim can assist:

- Disease or injury to the central nervous system (such as stroke, skull/brain trauma, brain tumour operation, infantile brain damage)
- Injury to the spinal cord, such as incomplete paraplegia
- Muscle tension and spasms based on existing paresis

Learning and performing therapy

mentastim therapy is used in selected rehabilitation clinics. There you can learn and train the handling of the device with educated therapists. In a similar manner, specialised ergotherapists or physiotherapists support you in their own practice or in outpatient rehab centres.

The therapy is particularly successful if performed independently at home on multiple occasions during the day. Your therapist will continuously adjust the device to your therapeutic progress.



mentastim provides an effective complement to your rehabilitation therapy.

Therapy with mentastim promotes the reorganization of the brain to relearn motor movement patterns.

Aims of therapy:

- Regulation of muscle tone and reduction of spasms
- Reduction of ataxia
- Initiation and relearning of movement sequences
- Improvement of fine motor coordination
- Prevention of damages resulting from faulty posture



Easy and convenient to use:

- Simple therapy guidance by means of intuitive device operation
- Acoustic and visual therapy control
- Comprehensive therapy sequence memory as a success monitor
- Programming for individual patients
- Use in therapy also for low reactivity or events occurring further back in time