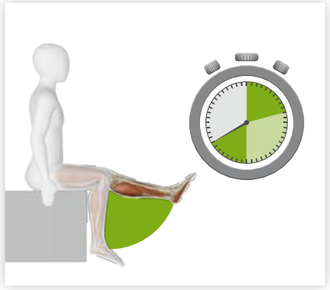
FES Cycling

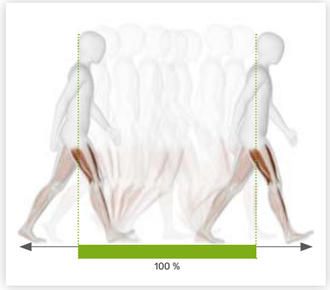
FES Cycling is ergometer training using the support of functional electrical stimulation. With an FES upgrade-kit, RehaMove can be used for motion-synchronous functional electrical stimulation with MOTOmed ergometers. The ergometer sends the required data for motion-synchronous stimulation to the stimulator to trigger the right muscles at the right time. Even patients with no voluntary activity can use RehaMove for arm and leg training.

FES Sequence Training

The sequence mode enables to individualize up to 8 stimulation channels related to patient´s and clinical needs. Furthermore, pre-defined templates, which are based on studies and clinical experiences, can be used as a time saving opportunity under unilateral and bilateral channel configurations.



Seconds Mode: Perfect for simple and non-cyclical stimulation sequences, i.e. wrist extension training



Percent Mode: Perfect for cyclical stimulation sequences, i.e. gait training

For more information about RehaMove or FES please visit our website or contact us.

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Certified by EN/ISO 13485

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RehaMove® Functional Electrical Stimulation

Benefits for neurological diseases

Functional Electrical Stimulation (FES) is an effective method for prophylaxis of muscle atrophy and paralysis-related sequelae.

Evidence based are improvements in relaxation of muscle spasms, prevention or retardation of disuse atrophy, increasing local blood circulation and maintaining or increasing range of motion.

Simple and time saving handling:

Adjusting the stimulation parameters can be very time consuming. RehaMove offers indication-specific templates, which are outcome-oriented for current and time parameters. To determine the individual excitation threshold of Patients, the current test can be used every time.

For a detailed listing of the most common FES applications please see the RehaMove application brochure.

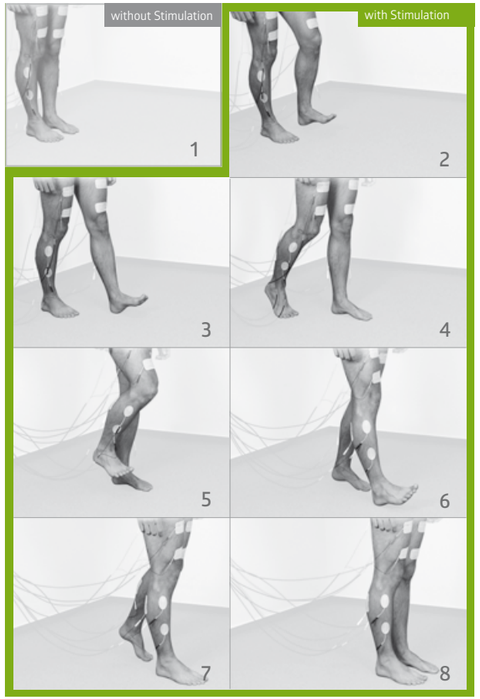
Performance:

Pulse width 20-500 µs
Frequency 10-50 Hz
8 color coded stimulation channel
Stimulation and parameter templates
high usability, also with hand paresis
optional external trigger

FES for physiotherapists

In physical therapy, the focus is on motor initiation, training of atrophied muscles, general preservation of mobility and compensation of paralyzed muscles. By stimulating especially the large (leg) muscles, an important contribution can be ensured related to preservation of strength and mobility as well as improvements in motor skills.

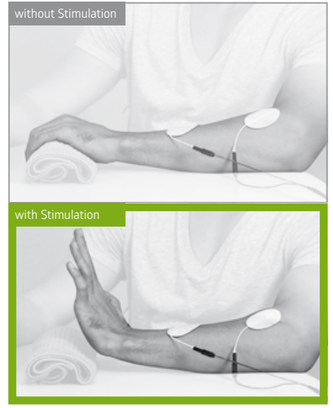
Support of activities of daily life, i.e. sit to stand exercises



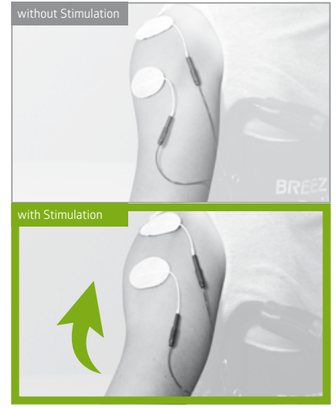
FES Gait training i.e. on bars

FES for occupational therapists

The focus of occupational therapy is on exercise activities of daily life as well as to improve motor functions. The use of FES can significantly improve range of motion of stimulated muscles and prevent atrophy.



Wrist-extension-stimulation for hemiplegic or quadriplegic patients



Stimulation of the rotator cuff to improve arm lift movements and prophylaxis of subluxation