



EXOPULSE



EXOPULSE Mollii Suit™ – a groundbreaking assistive medical device for adults and children with chronic pain, stroke, multiple sclerosis, cerebral palsy, spasticity and other motor disabilities

It is the first electrically powered neuromodulation garment for improved mobility, balance, blood circulation and pain relief.



EXONEURAL NETWORK

What is EXOPULSE Mollii Suit?

EXOPULSE Mollii Suit™ is a medical assistive device for neuromodulation, consisting of a pair of trousers, a jacket and a detachable control unit. The garment includes 58 imbedded electrodes, positioned to stimulate 40 key muscles throughout the body, and which can be programmed according to individual needs. Through low frequency electrostimulation, EXOPULSE Mollii Suit relieves chronic pain and relaxes spastic and tense muscles safely and simply. It also activates muscles to regain control, prevents disuse atrophy and may also increase local blood circulation.

What is its medical intended-use ?

- Symptomatic relief of chronic intractable pain
- Adjunctive treatment for post-surgical pain
- Relaxation of spastic muscles
- Maintaining or increasing range of motion
- Activation and re-education of muscles
- Retardation or prevention of disuse atrophy
- Increasing local blood circulation

Who uses the EXOPULSE Mollii Suit?

EXOPULSE Mollii Suit is used for chronic pain, spasticity and tense muscles, which is typically found in people with fibromyalgia, cerebral palsy, stroke, multiple sclerosis, spinal cord or acquired brain injuries and other neurological disorders. Mollii is available for both children and adults, from 104 cm up to 5XL men and women sizes.

Is it user-friendly?

The suit is safe and simple to use in both a home and clinic environment. Users dress-up with an EXOPULSE Mollii Suit the same way they would with an ordinary garment. There is a button for on/off and a button for play/pause. A simple push of the button starts the stimulation, which proceeds for 60 minutes. The device is recommended to be used 1 hour every 2nd day, unless otherwise specified by your healthcare provider, preferably together with physiotherapy, training or activity. The effects are individual and can last for up to 48 hours and possibly longer.

How does it work?

EXOPULSE Mollii Suit is used to stimulate the antagonistic muscle to a muscle that is spastic. If for example, the biceps muscle is spastic, the suit is used to stimulate the triceps muscle. By a natural reflex mechanism called reciprocal inhibition, the biceps muscle will subsequently relax. Relaxing the muscle enables a gradual improvement in function.

Moreover, EXOPULSE Mollii Suit facilitates subthreshold stimulation, preparing the muscle for contraction, and thereby reducing the nerve signal-strength required by the user to generate a muscle contraction.

EXOPULSE Mollii Suit also reduces chronic pain, in part through the gate control theory, which asserts that non-painful input such as the electric stimulation of cutaneous nerves, prevents pain sensation from traveling to the brain. In addition, the suit's unique ability to generate multi-stimulation to the central nervous system, combined with the low frequency used, may also inhibit pain by activating opioid receptors in the spinal cord and the brainstem. Spinal serotonin levels may also be increased during and immediately after using electrostimulation.

Is it clinically proven?

The clinical effects of EXOPULSE Mollii Suit have been substantiated in 19 ongoing clinical studies on 750+ patients with reference hospitals across the world, and of which 8 have already been completed and show positive results on pain, spasticity, function and mobility.

Safety

EXOPULSE Mollii Suit is not to be used with electrical implanted devices or medical devices that are affected by magnets, such as shunts. Consult a doctor in the event of: epilepsy, bone fracture, malignancy (cancer), infectious disease, fever, pregnancy, rashes, skin problems, cardiovascular disease or other types of related conditions, and if EXOPULSE Mollii is used with other medical devices such as cochlear implants. The product must be used according to the user manual.

Available sizes

Children: 104, 110, 116, 122, 128, 134, 140, 146, 152
Women: XS, S, M, L, XL, XXL, 3XL, 4XL, 5XL
Men: XS, S, M, L, XL, XXL, 3XL, 4XL, 5XL
Unisex: XL-Short

Consists of

Jacket, trousers, control unit (with bag), belt, laundry bag and user manual

Washing instructions

40 °C / 104 °F

Warranty period

2 year or 25 machine washes

Classification





The EXOPULSE Mollii Suit is a medical device class IIa.



Technical Information

Power:	4 AAA batteries
Voltage:	20 V
Pulse width:	25-175 µs
Frequency:	20 Hz
Pulse shape:	Square wave
Channels:	40
Electrodes:	58 made of silicon rubber
Fabric:	Polyamide 51%, Elastane 49%

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