





## INTRODUCTION OF NOVAFON

The gentle vibrations of NOVAFON sound wave devices facilitates pain reduction and help to rehabilitate patients with neurological conditions.

● Deep tissue stimulation triggers the body's own response mechanisms and supports the rehabilitation after a wide range of illnesses. Muscle functionality and activity improve. This makes NOVAFON sound wave devices a useful therapeutic aid in surgeries and hospitals. Therapists and patients put their trust in the reliable effect and ● **user friendliness** of NOVAFON. Local vibration therapy has been proven to be more effective than aspirin in the treatment of chronic pain. Local vibration therapy also improves the functional abilities of stroke patients. For example, after treatment, patients find it much easier to grasp objects. A number of clinical studies confirm the added benefit of local vibration therapy.

## BENEFITS OF LOCAL VIBRATION THERAPY

The device is most frequently used to ● **reduce pain** in patients suffering from acute and chronic muscle, joint and tendon conditions. The gentle treatment is also used to manage phantom pains or chronic pain syndromes such as fibromyalgia.



Reduces tendon pain



Reduces muscle pain



Reduces joint pain

In the rehabilitation of ● **neurological diseases**, the therapy is used for the treatment of spasticity, hemineglect and sensorimotor disorders. The goal is to maintain or regain functions and to facilitate everyday activities such as writing, grasping, running, and eating.



Improves grasping

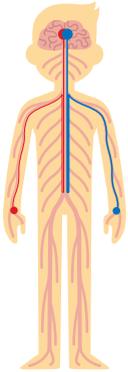


Improves gait pattern

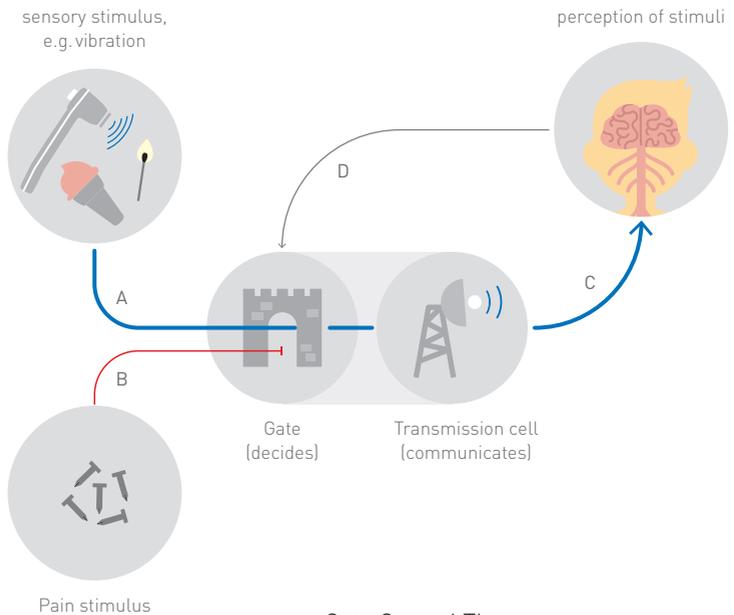


Improves perception/  
sensation

## OPERATING PRINCIPLE



Using various attachments with a frequency of 100 Hz or 50 Hz, vibrations are directed to the affected area of the body. The vertical vibration allows deep stimulation of up to 6 cm. When these vibrations reach the targeted muscles, tendons, and nerves, the ● **transmission of pain signals to the brain can be interrupted** (Gate Control Theory) or the Tonic Vibration Reflex (TVR) triggered. The stimulation of muscle spindles and the proprioceptive system ● **improves muscular function** and normalises muscle tone.



### Gate Control Theory

- A thick nerve fibres [are overlaying]
- B thin nerve fibres [are overlaid]
- C filtered information transmission
- D result/feedback from the brain: the sensory stimulus dominates, the pain stimulus is no longer perceived

## PRACTICAL APPLICATION OF NOVAFON

Treatment goals are marked in blue



### Speech therapy

Voice

Improved perception and muscle tone regulation

Swallowing

Activation of relevant muscles

Speaking

Improved muscle activation

Myofunctional therapy

Activation of hypotonic muscles

Intraoral treatment

Improvement of intraoral perception



### Occupational therapy

Spasticity

Improvement of the grasping function

Neglect

Improved exploration to the affected side

Pain

Pain reduction and improved mobility range



### Physiotherapy

Spasticity

Improvement of gait

Pain

Pain reduction and improved mobility range

Jaw joint treatment

Muscle tone regulation and pain reduction



## Naturopathy

Myofascial pain

Pain relief and muscle relaxation

Inflammations and joints

Pain reduction and improved mobility range

Trigger and acupressure points

Muscle tone regulation and pain reduction

Sports therapy

Promoting regeneration by tissue stimulation



## Veterinary medicine

Horse therapy

Pain relief and regeneration

Treatment of small animals

Stimulation of proprioceptive sensitivity



## Self users

Orthopaedic symptoms all over the body

Pain relief and regeneration

Neurological disorders after instruction

Function maintenance and muscle relaxation

## PRODUCTS



NOVAFON pro



NOVAFON power



REHAB Set



NOVAFON power ● ●



NOVAFON classic



Intraoral Set



Magnetic attachment ● ●



## Studies

[novafon.com/professional-user](https://novafon.com/professional-user)

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## Application videos

[novafon.com/applications](https://novafon.com/applications)

## NOVAFON GMBH

NOVAFON GmbH has been manufacturing electro-medical devices for more than 40 years. With our NOVAFON brand we are an ambassador for local vibration therapy and stand for quality and reliability in this area. Our tried and tested therapy devices are "Made in Germany". As a medical device manufacturer, our quality management is certified according to DIN EN ISO 13485 and our products are subject to strict safety regulations – for the safety and well-being of our customers.



Certified medical devices  
rated by TÜV SÜD



Made in Germany



Evidence-based treatment

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