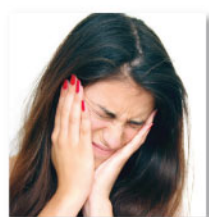
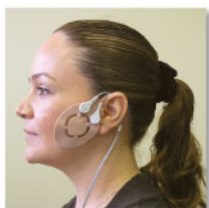


PainShield is a novel comprehensive ultrasound solution for localized, neurological, musculoskeletal and soft tissue pain management. The PainShield provides ultrasound therapy that reduces pain and expedites healing. Unlike conventional bulk wave ultrasound, the PainShield's unique therapeutic parameters allow for long treatment sessions that are much more effective.

PainShield helps treat following conditions

- Chronic and acute pain
- Neck and back pain
- Knee, elbow, shoulder and other joints pain
- Tendon and muscle pain
- Sprain and sport injuries
- Arthritis and tendon inflammation
- Rheumatic pain
- Abdominal pain
- Plantar fasciitis
- Tennis elbow
- Achilles tendonitis
- Carpal tunnel syndrome



For a consultation, please contact :



Marketed by: **inmito**

INMITO MEDITECH PVT. LTD.
 216-A, Humayunpur Safdarjung Enclave,
 New Delhi-110 029 (INDIA)
 Phone : +91-11-46023610-11
 Fax : +91-11-46023611
 www.inmito.com

NanoVibronix Ltd.
 9 Derech Hashalom St.
 Nesher 36651, ISRAEL

info@nanovibronix.com

www.nanovibronix.com

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NANO VIBRONIX™

Published for the education of the patients

**NEW PARADIGM
 for the treatment of
 TRIGEMINAL NEURALGIA**

PAINSHIELD™

**Low Frequency
 Low Intensity
 Therapeutic Ultrasound**



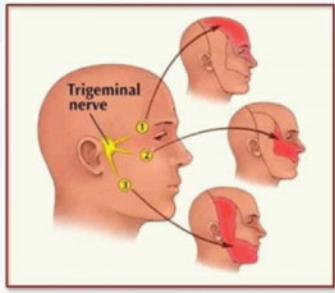
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Trigeminal Neuralgia Background and Testimonials

Trigeminal Neuralgia is severe spastic, lancinating facial pain due to a disorder of the 5th cranial nerve. Diagnosis is clinical.

Trigeminal Neuralgia Etiology

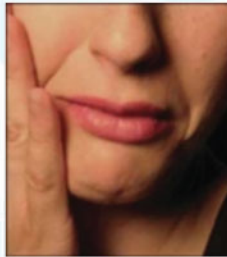
Trigeminal neuralgia is usually caused by an intracranial artery or, a venous loop that compresses the Trigeminal nerve at its root entry zone into the brain stem. Other less common trigeminal neuralgia causes include compression by a tumor and occasionally a multiple sclerosis plaque at the root entry zone, but these are distinguished usually by accompanying sensory and other deficits.



The mechanism is suggested to be a nerve compression which causes local demyelination, which may result in ectopic impulse generation and/or disinhibition of central pain pathways involving the spinal trigeminal nucleus.

Trigeminal Neuralgia Symptoms and Signs

Pain occurs along the distribution of one or more sensory divisions of the trigeminal nerve, most often the maxillary (upper jaw). The pain is paroxysmal (spastic), lasting seconds up to 2 min, but attacks may recur rapidly. It is lancinating, excruciating, and sometimes incapacitating. Trigeminal neuralgia pain is often precipitated by stimulating a facial trigger point (eg. by chewing, brushing the teeth, or smiling). Sleeping on that side of the face is often intolerable.



Trigeminal Neuralgia Diagnosis

Trigeminal neuralgia symptoms are almost pathognomonic. Neurologic examination is normal in trigeminal neuralgia. Thus, neurologic deficits (usually loss of facial sensation) suggest that the TN-like pain is caused by another disorder (e.g. tumor, stroke, multiple sclerosis plaque, vascular malformation, other lesions) that compress the trigeminal nerve or disrupt its brain stem pathways.

Conventional Trigeminal Neuralgia Treatment

Drugs - usually anticonvulsants or painkillers that may become ineffective with disease progression and carry various adverse effects.

Surgical Intervention - If pain is severe despite the pharmacologic treatment, a surgical treatments are considered; however, efficacy may be temporary, and improvement may be followed by recurrent pain that is more severe than the preceding episodes.

PainShield Treatment to Replace Drugs and Surgical Intervention

The PainShield therapeutic ultrasound was demonstrated, in several studies, to reduce pain and help nerve recovery. Unlike conventional bulk wave ultrasound, the PainShield's unique frequency and intensity allow for long treatment sessions (6 hours daily) that are more effective than the conventional products.

PainShield unique advantages over existing treatment alternatives :

- Treating trigeminal neuralgia with the PainShield allows reduction in medication dosage and eliminates related adverse drug effects.
- The PainShield patch is applied on a bony surface in the face allowing the surface acoustic ultrasound waves to travel across the entire skull and reach the root of the trigeminal nerve to promote healing of nerve origin (currently under clinical research).
- No limitation in treatment duration.
- The treatment may help avoiding Trigeminal Neuralgia surgery.



Successful drug/surgery free treatment for Trigeminal Neuralgia Using the PainShield.

"73 % of the subjects experienced complete or near complete pain relief. In nearly all cases, there was a delay of 1-2 weeks before the onset of relief followed by a gradual improvement, in pain relief, over the following 2-6 weeks."

Dr. Adahan, Head, pain rehabilitation, Sheba Medical Center, Israel

FDA & CE Mark approved - the hands-free therapeutic PainShield is backed by numerous scientific studies & publications.

Novel, patch-based diathermy -

The therapeutic use of ultrasound energy to generate local heating of body tissues

Continuous wave ultrasound -

Professional, pocket-sized ultrasound therapy that does not require a doctor's application or bulky ultrasound transducers

Targeted pain relief -

Position therapy patch on or proximal to the pain source for an effective treatment 1" deep and 4" radially

Portable ultrasonic therapy -

Place the PainShield in an arm band, a pocket or clip to your belt, apply the patch, & treat for up to 6.5 hours (auto shut-off, no risk of tissue overheating)

Convenient & easy -

Eliminates the need for messy ultrasound gel & can be used anywhere anytime, even during sleep or daily activities

All Inclusive Package -

PainShield MD pocket-sized ultrasound device, 4 reusable treatment patches, comprehensive user manual, 1 year warranty & our dedicated support.

