



## What Is The Neurogenx Treatment?

It is a clinically proven electromedical treatment provided with a medical device called the Neurogenx 4000Pro, a cutting-edge treatment tool that is FDA-cleared and patented as the only device of its kind. It generates a sophisticated electronic signal with a wide frequency band to safely treat the pain, tingling, burning and numbness resulting from neuropathy and chronic nerve conditions. It may be used either as a conservative standalone treatment or combined with a local anesthetic regimen.



## Treatment Protocol Summary: How It Works

The Neurogenx Treatment delivers an electronic signal to the body's deep tissues via as many as six self-adhesive electrode patches simultaneously. The electrodes may be located strategically on/near the affected areas or closer to the central nerve branch for systemic treatment sweeps. The electronic signal has a unique, bio-compatible waveform, so called because of its similarity to the electric waveform generated by the human body.

Treatments are non-narcotic and non-invasive. Treatment sessions average 20-40 minutes each and the typical treatment course is 1-2 visits per week for 12-16 weeks. Improvement in symptoms can begin within 3-4 visits.

Treatment usually begins with the electronic signal alone, but can be augmented early on as needed with a targeted, low-dose anesthetic. This combined approach is often called an Integrated Nerve Block. The local anesthetic addresses the pain early and helps increase permeability at the nerve membrane and accelerate results. Treatment concludes with electronic signal alone.



## The Science: Why It Works

The Neurogenx Treatment's effectiveness derives from the device's exclusive technology:

- It operates at both a higher and wider frequency range (40,000Hz-400Hz) than other devices. This allows the electronic signal to effectively reach more types of cells and nerve fibers.
- The electronic signal is generated in a waveform that is very similar to the body's own. This compatibility allows the electronic signal to penetrate deep and create change at the cellular level, increasing cellular metabolism, normalizing pH and encouraging healing.
- Nerves are 60% more conductive than other tissue or cells. As all energy travels the path of least resistance, this means the energy of the applied electronic signal is drawn more directly to the nerve cells, where it does the most good. Since the signal produced by the Neurogenx 4000Pro is stronger than that of competing electromedical devices as well as more congruent with the body's energy pattern, it produces larger benefits in the affected cells.

### *The Technical Concepts:*

- The electronic signal's waveform has a rapid rise and slow decay, comparable to what the body produces in the form of action potentials along the surface of the nerve membrane.
- This compatibility permits the electronic signal to trigger sustained depolarization of cell membranes, causing their voltage-dependent gateways to stay open.
- The open gateways permit needed energy to enter the cell. Without sufficient energy, the cells will not function correctly and don't self-regulate.
- The open gateways also enable the energy to force out fluid, hydrogen ions and waste products (the cause of swelling and pain).
- This creates a healthy environment where the body can begin to heal itself.
- The end result is reduction of neuropathy symptoms and restorative motor and sensory improvement.



## Indications

Treatment with the Neurogenx 4000Pro is used to alleviate the pain, tingling, burning and numbness resulting from neuropathy and chronic nerve conditions. It successfully treats neuropathic symptoms resulting from illness & disease, injury and accidents, including those caused by or associated with:

Carpal Tunnel Syndrome	Fibromyalgia	Neuritis	Radiculopathy
Charcot Marie Tooth	Inflammatory Conditions	Neuromas	Restless Leg Syndrome
Chemotherapy	Lyme Disease	Phantom Leg Syndrome	Tarsal Tunnel Syndrome
Complex Regional Pain Syndrome	Migraines	Plantar Fasciitis	Vascular Conditions
Diabetes	Multiple Sclerosis	Post-Op Pain	Viral Infection



## Contraindications & Precautions

Neurogenx treatments are not recommended for patients:

- who are pregnant
- who have demand-type pacemakers/defibrillators
- who have spinal cord stimulators

If a potential patient has one of the following conditions, it is advisable to speak with the patient's primary care physician and concur on the need for treatment:

- local cellulitis in the treatment region
- a history of DVT. In the case of DVT. Note that it's best to get a vascular surgeon to clear the patient for treatment by verifying that any existing blood clots are stable.



## Success Rate

The Neurogenx Treatment is provided effectively by hundreds of physicians, providers and Neurogenx NerveCenters across the country. **In more than four out of five patients (87%),** treatment resolves or significantly reduces neuropathy symptoms such as:

Pain	Cramping
Numbness	Hypersensitivity
Burning	Tingling



Treatment results have been confirmed by independent nerve conduction studies, nerve fiber density tests and balance plate testing.



### Is The Neurogenx Treatment Covered By Insurance?

The first step is to arrange for a medical evaluation to find out whether the patient is a candidate for treatment. A patient's first consultation and evaluation are offered at no charge so that there is no cost to learn whether the Neurogenx Treatment is right for him or her.

If the patient is a candidate for treatment, the next step is a meeting with the Benefit Coordinator. The Coordinator will review the patient's insurance coverage and provide co-pay, deductible and financing options, as needed, to make sure the treatment is affordable.



### Does The Procedure Need To Be Done In A Surgical Or Operating Room Setting?

No, as Neurogenx treatments are non-invasive and non-surgical, they are safely done in-office.



### Who Administers Treatment?

Physicians, Nurse Practitioners and other licensed, certified clinicians as permitted by state regulations. For instance, many states allow treatment to be provided by licensed medical professionals such as an MA, PA or physical therapist, provided they are under the supervision of a physician, Nurse Practitioner or a Physical Therapist with a Master's Degree.



### How Long Do Treatments Take?

Usually between 20-40 minutes, depending on the provider. Treatments are usually provided in two 20-minute sessions, one right after the other. The protocol recommendation is 20 minutes at one frequency level. If a nerve block is needed, it will be administered during the first 20-minute treatment period. When the first treatment period is complete, the provider will move onto the second 20 minutes at the next higher frequency level.



### Is There A Typical Number of Treatments?

As with any medical treatment, results and duration of treatment are dependent on the patient's condition, treatment compliance, genetics, diagnosis and other factors. Typically patients undergo treatment for 8-16 weeks with the total number of treatments most often being between 16-24. All Neurogenx Providers commit to patient treatment and monitoring for one year and will administer treatments as often a needed during that year to reach maximum beneficial results.



### How Do We Assess Patient Progress?

Clinicians will chart patient feedback about changes in pain and other symptoms. They will also assess improvement with physical exams, balance plate testing to evaluate gait, stance, stability, proprioception and physical sensation. In addition, epidermal nerve fiber density testing will be conducted before treatment and 6 months after a treatment course is complete.

It's also important to note that as a damaged nerve begins to heal, the return of sensation can sometimes be experienced as pain of varying degrees. This is a normal part of the restorative process and is usually limited in duration, disappearing as treatment progresses and sensation more fully recovers.



### Is Neurogenx Just Another TENS Unit?

Although the delivery mechanisms may be similar, the Neurogenx 4000Pro is absolutely not a TENS Unit. It is far more powerful and operates at higher, more therapeutic frequencies of 40,000Hz to 400Hz during electro-stimulation. In addition, the waveform of the Neurogenx 4000Pro imitates the action potential of the nerve, increasing its effectiveness. Compare these features to other electromedical devices in the chart below.

	TENS	Inferential Nerve Stimulation	NEUROGENX 4000 Pro
<i>Frequency</i>	Less than 1000 HZ	4000-4400HZ	40,000 HZ - 400 HZ
<i>Wave Form</i>	Rudimentary Biophasic	Simple Sinusoidal	Sophisticated Bio-Similar



### FDA Clearance

The Neurogenx 4000Pro has received FDA 510-K Clearance as a medical device. Additionally, the safety and effectiveness of the 4000Pro is supported by over 10 years of proven clinical success in the field by hundreds of providers across the United States.



### About Injections And Nerve Blocks

Please note that successful treatment with Neurogenx is routinely accomplished without nerve block injections; however, anesthetic injections may accelerate healing by managing pain and facilitating opening of the membrane voltage gateways.

- What's the reason for the nerve block?**  
To help break the pain cycle and offer immediate relief. The anesthetic also vasodilates the blood vessels to bring oxygen and nutrients into the damaged nerve.
- How many nerves receive injections?**  
Nerve blocks are only done on the nerves that are affected. Clinical examination and personal medical judgment determine which nerves are affected.
- Where are the nerves injected?**  
At the ankle, using a modified ankle block.
- What are the nerves injected with?**  
The Neurogenx protocol recommends 0.25% Marcaine, plain.
- How many ml of Marcaine are injected per nerve?**  
The recommended protocol is to begin with 1-2 ml of 0.25% Marcaine per nerve and decrease the amount per treatment session as the nerve recovers. As soon as one nerve is asymptomatic, injections for that nerve are stopped. For instance, a patient may begin treatment session one having four nerves injected, and, by treatment session four, may be receiving injections for only two nerves.
- For how many treatments are nerves injected?**  
Typically, nerve blocks are only involved in the first 6 treatment sessions. By treatments 7-12, the Neurogenx 4000Pro is used alone for treatment without injections.