

Percutaneous Neuromodulation Therapy (PNT)

Treating Back and Neck Pain with the Vertis PNT™ System

An INNOVATIVE Approach

PNT is a low-risk minimally invasive therapy that is FDA cleared and clinically proven to offer lasting pain relief, improve physical function and reduce intake of oral pain medications. PNT has been shown to offer durable pain relief for hundreds of patients who have received little or no benefit from conventional or first-line pain treatments.

Sometimes during their lives, nearly 80% of Americans will experience an episode of low back pain. The prevalence of neck pain is also quite high, occurring approximately one-half as often as low back pain. The majority of backache sufferers complain of pain in the lower back and the second most common site of discomfort is the base of the neck. Most episodes of back or neck pain are self-limited, meaning that they will resolve on their own. In many cases, however, short-term episodes evolve into persistent, recurring pain thought to be caused by increased sensitization of the nerve cells that transmit pain signals.

As a result, many patients progress to more debilitating, chronic pain that can persist for months or even years. For those who do not respond to early treatment, the path from conservative therapies to riskier and more invasive procedures can be short. Treatment options for these patients may be limited often involving strong pain medications or invasive approaches such as spinal injections or surgery.

Now there's a much less invasive treatment option - Percutaneous Neuromodulation Therapy or **PNT**. Using innovative technology, Vertis PNT™ delivers electrical stimulation directly to the deep tissues in order to reach the nerve pathways in the central nervous system that can affect the pain.

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Diagnoses Treated:

- Subacute Spinal Pain
- Chronic Spinal Pain
- Whiplash
- Myofascial Pain/Fibromyalgia
- Degenerative Disc Disease
- Centrally Mediated Pain



Placement of Safeguide electrodes is based on years of experience and clinical studies on percutaneous electrical stimulation.

OrthoNeuro
A Multi-Specialty Center of Excellence



A SCIENCE-BASED THERAPY

Scientists now know that an acute injury can trigger changes in the pain-transmitting nerve cells of the spinal cord, resulting in a hypersensitivity which amplifies pain and prolongs suffering well beyond the initial injury. Once this occurs, normal daily activities such as reaching, walking, standing or even sitting can result in debilitating pain that reinforces changes in the spinal column.

Significant progress is now being made in understanding chronic pain syndromes offering insight into new treatment approaches. Researchers believe that the stimulation delivered through deep peripheral nerves reverses the changes to nerve cells in the spinal column that are responsible for persistent pain. For many patients, the result of a course of PNT is significant and lasting relief.

Clinical research studies have shown that electrical stimulation delivered directly to the deep tissues reduces pain for many patients. In addition to pain relief, benefits often include less reliance on pain medications, increased physical activity and improved sleep. Results of several multi-center clinical studies show PNT to be a highly reliable and effective treatment for spinal pain with no significant side effects or complications reported.

This therapy may be an option for your base on insurance coverage. Since it is a new therapy, Medicaid and Medicare DO NOT currently cover the cost of this treatment. Your private insurance carrier or worker's compensation insurance may cover PNT if it is considered medically necessary for your painful condition. Preapproval is performed before therapy is started.

Safeguide placement maps that provide maximum patient benefit are chosen for the PNT therapy.



The first in focus.

Founded more than 60 years ago, OrthoNeuro was the first private group in central Ohio to provide a multi-disciplinary center specializing in orthopedic surgery, sports medicine, neurology, neurosurgery and physical medicine and rehabilitation.

The foremost in care.

Our focus ensures that our patients receive the highest quality of care in an environment that's committed to personal attention.

Our **SportMed** program provides comprehensive sports medicine care from injury prevention to injury treatment and rehabilitation.

Our **SpineMed** program calls upon a multi-disciplinary team of surgeons, physical medicine and rehabilitation physicians along with therapists to diagnose, treat and rehabilitate spinal injuries.

Our **WorkMed** program provides treatment and rehabilitation for industrial and occupational-related injuries. OrthoNeuro specializes in musculoskeletal and neurological disorders in the following areas:

Orthopedic Services

- Orthopedic Surgery
- Fracture Care
- Foot & Ankle Surgery
- Spine Surgery
- Sports Medicine
- Arthroscopic Surgery
- Joint Replacement
- Hand Surgery

Neurologic Services

- Neurology
- Migraine Treatment
- Occupational Medicine
- Neurosurgery
- Headache Treatment
- Industrial Medicine

Physical Medicine and Rehabilitation

- EMG/EEG
- Physical Medicine
- Rehabilitation

Imaging

Physical Therapy and Rehabilitation

SpineMed

SportMed

WorkMed

OrthoNeuro

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