

## **What is Peripheral Neuropathy?**

Peripheral neuropathy is damage of the peripheral nerves. Your peripheral nerves, the nerves in your toes and fingertips, are the ones on the periphery of your body. When the nerves are damaged, they don't function properly. People with peripheral neuropathy have decreased or abnormal sensation in their toes and fingers. Sometimes, they develop problems moving these parts of the body as well.

### **Causes**

In the United States, the most common cause of peripheral neuropathy is diabetes. According to the American Diabetes Association, 60 to 70 percent of people with diabetes will develop neuropathy within their lifetime.

Other causes of peripheral neuropathy include:

Certain medications, including some chemotherapy drugs.

Heredity. Some people have a family history of peripheral neuropathy.

Advanced age. Peripheral neuropathy is more common as people age.

Arthritis. Certain type of arthritis can cause peripheral neuropathy.

Alcoholism. According to the US National Library of Medicine, up to half of all long-term heavy alcohol users develop peripheral neuropathy.

Neurological disorders. Certain neurological disorders, including spina bifida and fibromyalgia, are associated with peripheral neuropathy.

Injury. Acute injury to the peripheral nerves may also cause peripheral neuropathy.

### **Symptoms**

The most common symptoms of peripheral neuropathy include burning, numbness, tingling, or shooting or stabbing pain in the toes and/or fingertips. Any change in sensation in the fingers or toes may be a symptom of peripheral neuropathy. Be sure to report any abnormal sensations to your doctor. Those sensations may be the first sign of another problem, such as diabetes.

### **Home Care**

If you have peripheral neuropathy, it is important to inspect your feet regularly. Because decreased sensation may develop eventually, you might not notice an injury or infection. Someone who has diabetes and peripheral neuropathy with loss of protective sensation, for instance, could step on a tack without noticing it. Regularly inspect your feet so you can note any injuries or infections and seek appropriate medical attention as needed.

If you're unable to properly inspect your own feet, enlist a family member or friend to help you. It's absolutely essential that any injuries are caught and treated promptly. Otherwise, an infection can develop and progress.

People with peripheral neuropathy should wear properly fitted shoes and avoid walking barefoot to prevent injury. If you have diabetes, it's important to control your blood sugar as well, because out-of-control blood sugar leads to increased nerve damage. Take your insulin or medication as prescribed and follow the recommended diet.

### **Diagnosis and Treatment**

Dr. Michaels who specializes in diabetes can diagnose peripheral neuropathy. The diagnosis is made on the basis of a physical exam, health history, and your reporting of symptoms. The doctor may order a blood test to check your blood sugar level because high blood sugar levels and diabetes are an important cause of peripheral neuropathy.

There is no known cure for peripheral neuropathy. The goal of treatments are to slow the progression of the disease, to maintain foot health, and to decrease pain (if present) and improve the quality of life.

Dr. Michaels may prescribe oral medication to help with pain. He will also perform a thorough foot check to look for any injuries or infections and will teach you how to do the same. Dr. Michaels will also show you how to take care of your feet at home. People who have peripheral neuropathy should have their feet examined by Dr. Michaels at least once per year.

If you also have diabetes, Dr. Michaels will work closely with you and other health-care professionals. Controlling the patient's blood sugar levels with diet, exercise, and medication (if needed) can slow the progression of peripheral neuropathy and maintain foot health.

### **Prevention**

The best thing you can do to prevent peripheral neuropathy is to keep your blood sugar levels under control. Peripheral neuropathy is common in people with diabetes, but the degree of neuropathy generally corresponds to the degree of blood sugar control. Someone whose blood sugar is kept under tight control will usually have much better sensation in their fingers and toes than someone with poorly controlled diabetes.

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For further information about foot or ankle conditions, contact one of our foot and ankle surgeons at the Reconstructive Foot & Ankle Institute, LLC. Visit us on the web at [www.rfainstitute.com](http://www.rfainstitute.com) or make an appointment with one of our state of the art offices in Maryland:

To make an appointment at our Frederick office, please call 301.418.6014. 2100 Old Farm Drive Ste. D, Frederick, MD 21702

To make an appointment at our Hagerstown office, please call 301.797.8554. 1150 Professional Court, Suite C, Hagerstown, MD 21740

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Daniel D. Michaels, DPM, MS & Associates