



Non-surgical treatment for varicose veins

A safe and minimally invasive way to
eliminate painful and unsightly veins



NORTH STAR
VASCULAR & INTERVENTIONAL

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What causes varicose and spider veins?

Varicose veins are enlarged, swollen veins that rise above the surface of the skin. Spider veins are smaller, red, purple or blue in color and generally do not bulge above the skin. Both are caused by a condition called venous insufficiency, wherein valves that are designed to prevent blood from flowing backwards become weak and allow blood to pool in the vein. The underlying causes include heredity, age, prolonged standing, exposure to the sun, hormone changes or weight gain.

In addition to the unsightly appearance of varicose veins, the condition can become quite painful. Delaying treatment can also lead to more serious complications, including inflammation, blood clots, skin ulcers, bleeding and deep vein thrombosis.



Sclerotherapy. An effective treatment for spider veins.

Sclerotherapy is a safe and widely used treatment for surface-level spider veins. It is performed by injecting a chemical substance called a sclerosant directly into the affected veins. The chemical causes the veins to harden from the inside out, so they can no longer fill with blood. The veins close off and are reabsorbed by your body over a few weeks.

If dealt with at an early stage, spider veins may not become a larger problem. Depending on the type and number of veins being treated, you may need one to several injections over one or several sessions. The cost of sclerotherapy is not covered by most health insurance plans, but the procedure is very affordable. Please call us for pricing details.



Varicose vein treatment at North Star Vascular & Interventional

At NSVI, we offer several different treatment options depending on your specific type of varicose veins.

Endovenous laser therapy (EVLT) is a fast, minimally invasive laser procedure that leaves no scars and can be performed in less than an hour. Unlike surgery, EVLT permanently closes off the vein while leaving it in place. It is covered by most insurance plans/Medicare and is generally used for larger varicose veins.

VenaSeal™ is a state-of-the-art treatment that uses a special adhesive to seal the vein. It is an excellent option for smaller veins and protects the skin and surrounding nerves from heat damage. This procedure is also covered by most insurance plans and Medicare.

Either procedure requires only a tiny nick in the skin to access the vein, so there is almost no scarring, and you can immediately resume normal activities after the procedure. Ultrasound is used to map out the veins prior to the procedure. A local anesthetic is then used to numb the treatment area. A very thin fiber optic probe with a laser is then inserted through a tiny entry point, usually near the knee. Once in place, the faulty vein is sealed. Within a few weeks after treatment, the vein shrinks and is absorbed by the body naturally.



BEFORE

AFTER

TAKE THE FIRST STEP

We invite you to visit our conveniently located Minneapolis outpatient center for a free screening where we will help you understand the underlying cause of your condition, discuss treatment options and show you how you may be able to prevent recurrences.

Please call us at (952) 960-9399 to schedule your **FREE** consultation.



North Star Vascular & Interventional

The doctors at NSVI are pioneers in interventional radiology. Hailing from some of the region's most prestigious healthcare and academic institutions, they were among the first to perform certain imaging-guided procedures in the United States.

NSVI offers the full range of high quality, minimally invasive vascular and interventional radiology services at our state-of-the-art Minneapolis-based outpatient center. In addition to varicose vein treatment, we offer less invasive options for treating vascular disease, cancer, spine fractures, uterine fibroids, knee osteoarthritis, thyroid disease and more. These treatments require no hospital stay, are less expensive than surgery and are performed with excellent precision and safety.

To learn more, visit NorthStarIR.com.



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