



# Non-surgical treatment for varicose veins

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



**NORTH STAR**  
VASCULAR & INTERVENTIONAL

# Varicose vein treatment at North Star Vascular & Interventional

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

**Sclerotherapy** is an effective treatment for spider veins. It is performed by injecting a chemical substance called a sclerosant directly into the affected veins. The chemical causes the veins to close and are reabsorbed by your body over a few weeks. The cost of sclerotherapy is not covered by most health insurance plans, but the procedure is very affordable. Please call us for pricing details.



## 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, which means that valves within the vein that 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 be quite painful. Delaying treatment can lead to more serious complications, including inflammation, blood clots, skin ulcers, bleeding and deep vein thrombosis.



**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 covered by most insurance plans and Medicare.

**Radiofrequency Ablation (RFA)** uses radiofrequency energy to seal the faulty vein shut. It has advantages over other forms of treatment in that it may result in a faster recovery with less discomfort and bruising. RFA is covered by most insurance plans and Medicare.

Varicose vein treatment with these procedures requires only tiny nicks in the skin to access the vein, so there is almost no scarring, and you can immediately resume normal activities after the procedure. Within a few weeks, 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 a 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 minimally invasive vascular and interventional radiology services, including cancer treatment, at their 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](http://NorthStarIR.com).



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