



# Non-Surgical Precision Therapy



**NORTH STAR**  
VASCULAR & INTERVENTIONAL

# The benefits of our outpatient treatment center

Our new center houses the latest and most advanced equipment for interventional radiology procedures, which require no general anesthesia and offer patients an easier and faster recovery compared with their surgical alternatives.

**Outpatient IR services offer a number of benefits to patients, including:**

- A more comfortable, non-hospital environment
- Lower risk of infection
- Lower cost for procedures
- Less waiting, easy access and free parking



# The promise of personalized medicine...

...is fulfilled at North Star Vascular & Interventional. We offer precise therapies delivered directly to the source of disease, guided by state-of-the-art medical imaging, in real time.

Today, outpatient treatments are available for many diseases and health conditions that once required major surgery. By using the body's own vascular system to deliver highly targeted and effective treatments, physical trauma to the patient is reduced, as are complications, recovery time and overall cost.

**The doctors and staff at NSVI perform a full range of interventional radiology procedures, offering exciting advantages for both patients and the doctors who care for them. These include minimally invasive treatments for:**



## Vascular Disease

We offer a comprehensive array of services for the evaluation, treatment and management of patients with vascular conditions involving disease within the peripheral arteries and veins. From peripheral artery disease (PAD) and deep vein thrombosis (DVT) to varicose and spider vein treatments, our minimally invasive techniques offer excellent results compared with traditional surgical procedures. In addition, they can often be performed without general anesthesia, result in less discomfort and generally include a faster recovery.

**Procedures include: Angioplasty, stents, catheter-directed thromboaspiration, atherectomy, varicose veins and other venous interventions**



## Reproductive Health

For women, NSVI interventional radiologists perform highly effective and minimally invasive therapies for uterine fibroids and pelvic congestion syndrome. We offer a viable alternative to hysterectomy or myomectomy to treat the debilitating symptoms and heavy menstruation caused by fibroids. Ovarian vein embolization effectively seals off faulty veins within the pelvis to relieve the symptoms of abdominal pain, bloating, cramping and discharge. For men, an excellent FDA-cleared treatment for benign prostatic hyperplasia (BPH) is an effective alternative to transurethral resection of the prostate (TURP) surgery. Varicocele embolization is very effective for the management of men infertility and scrotal pain.

**Procedures include: Uterine fibroid embolization (UFE), ovarian vein embolization (OVE), varicocele prostate artery embolization (PAE) for BPH**



## Cancer and Benign Tumors

NSVI offers exciting new options to treat certain types of primary and metastatic cancers, especially those for which a surgical option is not possible, and a more targeted therapeutic approach is required. In addition, we are able to perform treatments such as Y-90 radioembolization in an outpatient setting, which previously had to be performed in a hospital. The advantage of our oncology treatments is that they precisely target the tumor, minimizing toxic effects on surrounding, healthy tissue.

**Procedures include: Embolization, ablation, chemoembolization, Y-90 radioembolization and giant liver hemangioma treatment**



## Muscles, Bones and Joints

One of the fastest growing areas within interventional radiology, musculoskeletal treatments are highly effective, less invasive and may help patients avoid orthopedic surgery. Vertebral augmentation procedures are offered for spine fractures caused by osteoporosis. We also perform a revolutionary treatment for knee pain caused by osteoarthritis, an ideal solution for those who wish to avoid total knee replacement surgery. And we are one of the first centers in the country to offer plantar fasciitis embolization for those suffering from heel pain and frozen shoulder embolization for adhesive capsulitis.

**Procedures include: Vertebroplasty, kyphoplasty, genicular artery embolization (GAE) and plantar fasciitis embolization (PFE)**



## Chronic Hemorrhoids

Chronic hemorrhoids are hemorrhoids that do not go away on their own or with topical treatments or medications. An alternative to hemorrhoid “banding” or hemorrhoidectomy surgery, hemorrhoidal artery embolization (HAE) is a new, effective and minimally invasive procedure performed at NSVI to treat chronic, persistent hemorrhoids. This treatment is fast and convenient and may be less painful than other treatment options.

**Procedures include: Hemorrhoidal artery embolization (HAE)**



## Thyroid Disease

We offer minimally invasive, non-surgical alternatives to treat symptomatic thyroid nodules: radiofrequency ablation and thyroid artery embolization. If medication and/or hormone therapy aren't working, this treatment option is less expensive than surgery, results in no neck scarring and reduces the risk of hyperthyroidism.

**Procedures include: Radiofrequency ablation (RFA) and thyroid artery embolization.**



## **Experience Matters**

Our doctors are among the most experienced in the United States at performing vascular and interventional radiology procedures. All are fellowship trained and come from some of the region's most prestigious healthcare and academic institutions.



**Jafar Golzarian, MD, FSIR**



**Amin Astani, MD, MBA**

If you would like more information about the outpatient center, or any of the minimally invasive procedures we perform, please contact us at: (952) 960-9399 or [info@northstarir.com](mailto:info@northstarir.com).



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[NorthStarIR.com](http://NorthStarIR.com)

P: (952) 960-9399

F: (952) 206-6467

8401 Golden Valley Rd  
Suite 340  
Golden Valley, MN 55427