



Shoulder Embolization

A safe and minimally invasive
treatment for shoulder pain



NORTH STAR
VASCULAR & INTERVENTIONAL

A new way to treat shoulder pain without surgery

Common causes of shoulder pain include:

- Frozen Shoulder (Adhesive Capsulitis): Gradual loss of movement as the shoulder joint becomes “stuck.”
- Chronic Rotator Cuff Tendinitis: Persistent inflammation of the tendons that worsens with movement and can disturb sleep.

Why it happens:

- The shoulder becomes highly vascularized, meaning too many large blood vessels form in the joint.
- These vessels bring in pro-inflammatory mediators, causing pain, inflammation, and scarring.



Why choose shoulder embolization over surgery?

- No general anesthesia
- No major incisions - and no scarring to worry about
- No long rehabilitation
- Faster return to normal activity
- Less expensive than surgery

Our state-of-the-art outpatient treatment center offers a more comfortable and convenient patient-friendly experience, and our doctors have extensive experience in diagnosing and treating musculoskeletal conditions.





Treatment Options

Conservative methods often include:

- Anti-inflammatory medications
- Steroid injections
- Physical therapy

These can help, but relief may take a long time—or never come. At NSVI, we offer a minimally invasive alternative: Shoulder Embolization. This innovative procedure provides lasting pain and stiffness relief—without surgery or a long recovery.

The shoulder embolization procedure

Shoulder embolization is performed by an interventional radiologist who uses a special catheter (guided by x-ray imaging) to “embolize” or partially block blood flow through the abnormal vessels within the joint. This reduces inflammation within the joint and delivers significant pain relief within just a few days.

Patients who have had shoulder embolization have reported less pain, significant increases in shoulder function and a decreased need for medication. Side effects from the procedure are rare and can include bruising or soreness in the area where the catheter is inserted into the body.



Is shoulder embolization right for me?

You may be a candidate for this procedure if you have:

- Persistent pain and stiffness that has not responded to conservative treatment such as physical therapy, medication or steroid injections
- You are seeking a less invasive alternative to surgery
- You wish to avoid long-term medication use

We are happy to work with other doctors and members of your care team to make sure that you receive all the information needed to make an informed decision about your treatment.

To schedule a consultation with one of our doctors, please call our team at (952) 960-9399.

Why Choose North Star Vascular & Interventional?

- Pioneers in interventional radiology
- Over a decade of experience using advanced embolization techniques
- Among the first in the U.S. to perform many of these techniques
- Have trained hundreds of physicians worldwide
- Procedures performed in our state-of-the-art outpatient center

You'll receive:

- Personalized, minimally invasive care
- Reduced risk of complications
- Lower overall costs compared to hospital-based treatment
- A more comfortable, patient-centered environment

To learn more, visit NorthStarIR.com



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NorthStarIR.com

P: (952) 960-9399

F: (952) 206-6467

8401 Golden Valley Rd
Suite 340
Golden Valley, MN 55427