



Plantar Fasciitis Embolization (PFE)

A minimally invasive treatment
for plantar fascia pain





When conservative treatment isn't working...

Plantar fasciitis is the most common type of heel pain in adults. It is caused by painful inflammation of the fascia, the thick band of tissue that runs across the bottom of the foot, connecting the heel bone to the toes. In addition to being painful, it can make it very difficult to walk.

It occurs, most commonly, in those between the ages of 40 and 60. It is more than twice as likely to be experienced by women. Also, because of the repetitive microtrauma to the heel caused by running, it is far more common among runners and at younger ages.

For most patients, conservative treatment such as icing, massage, taping, stretching—or even medication or orthotics—can help manage the condition until it resolves on its own. Unfortunately, up to 20% of those with plantar fasciitis will require more substantial treatment, as will those who cannot wait the 12 months it may take to heal itself.



WHAT CAUSES PLANTAR FASCIITIS?

Plantar fasciitis is caused by inflammation of the connective tissue within the heel. This is a result of repetitive stress or activities that produce irritation and tiny tears within the plantar fascia tissue.

Some possible causes of this condition include:

- Being overweight (BMI over 27)
- Having flat feet
- Prolonged standing
- Jumping
- Repetitive microtrauma (runners)
- Type II diabetes
- Reduced ankle dorsiflexion (limited motion of the ankle joint, due to tight muscles in the calf)



TREATMENT OPTIONS

For those who require another solution, surgery is sometimes used to cut or “release” the fascia to relieve pressure and restore blood flow to the heel. Unfortunately, up to 44% of patients experience swelling and tenderness up to 10 years after the surgery.¹ In addition, complications, such as nerve injury, biomechanical instability and recurrent heel pain can occur.

Other, less invasive options such as extracorporeal shock wave therapy (ESWT) or high intensity laser therapy (HILT)/low-level laser therapy (LLLT) are available. However, these require multiple treatment sessions and have a success rate between 75% (ESWT)² and 50-70% (laser therapy).³ Additionally, healing from these procedures may be slowed with the use of anti-inflammatory medications.⁴ Patients who have had a recent corticosteroid injection and those with open wounds around the treatment site are not eligible for the ESWT procedure. Other treatments, such as botulinum toxin injections, have very little evidence to support their effectiveness.

Fortunately, there is a new and highly effective minimally invasive treatment option: Plantar fasciitis embolization (PFE).

THE PFE PROCEDURE

During the procedure, a very small catheter is inserted into a blood vessel in the ankle or thigh. Our interventional radiologists use imaging to guide the catheter to the exact location of the blood vessels that are responsible for pain and inflammation. Tiny microparticles are injected into arteries to cut off blood supply to the inflamed tissue, which then heals naturally, reducing pain and discomfort.

PFE has been shown to be highly effective, with an excellent safety profile and success record.⁵

Talk to your doctor about PFE

PFE is a new and less invasive option to treat plantar fasciitis, performed by the experienced doctors at Vascular & Interventional Specialists of America. If you are not a candidate for surgery, or do not wish to have surgery or other treatments, talk with your doctor and share this brochure with them. If you have questions, call us! We are happy to help provide the information you need to make an informed decision with your doctor.



VASCULAR & INTERVENTIONAL SPECIALISTS OF AMERICA

VISA interventional radiologists are among the most highly trained practicing medicine today. With a combined total of 40+ years of experience in interventional procedures, our physicians utilize medical imaging to expertly guide procedures using tiny catheters and miniature instruments from within the body's vascular system.

In addition to vascular disease, we offer minimally invasive treatments for primary and metastatic liver cancer, vertebral compression fractures, uterine fibroids, chronic hemorrhoids, enlarged prostate (BPH) and knee osteoarthritis. For more information, please visit VisaVascular.com or call us at 205-905-8411.



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