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- **Performed in the doctor's office**
- **Only local anesthesia required**
- **Only 1 tiny entrance point through the skin**
- **Resume normal activities immediately**
- **Little or no sensation is felt**

About the ClariVein® Catheter

ClariVein® is a simple-to-use, minimally invasive, small caliber (2mm), soft, flexible, battery-powered infusion catheter designed to treat peripheral venous disorders of the legs.

The ClariVein® system promotes a controlled, well-dispersed drug infusion of the targeted abnormal vein. Infusion catheters are used in a variety of procedures to infuse a drug directly to a treatment site. They allow for direct, highly controllable, and concentrated treatment, minimizing the toxicity of systemic administration while increasing therapeutic efficacy, yield, and safety.

The ClariVein® catheter is a product of Vascular Insights LLC of Madison, CT. The company engages in the design, development, manufacture, and marketing of medical devices for the minimally invasive treatment of peripheral vascular disease.

ClariVein.



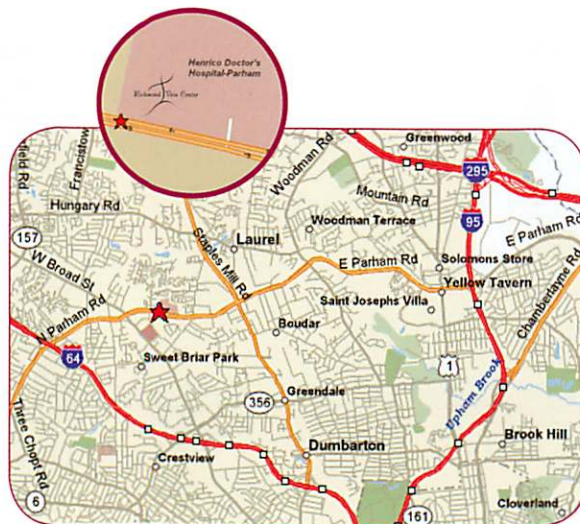
Appointments

All patients with surgical emergencies can expect to be seen the same day. Appointments for elective problems will be scheduled within one week. Every effort will be made to accommodate your schedule because we understand that your time is just as valuable as ours.

Insurance

We accept all major insurances including: Aetna, Anthem Blue Cross/Blue Shield, CIGNA, First Health Network, MAMSI, Medicare, Medicaid, One Health Plan, PHCS, Sentara Health System, Southern Health Services, TRICARE, UniCare, United Healthcare, VA Premier Health Plan and Virginia Health Network.

Your insurance company determines coverage on a per case basis, depending on medical necessity. Our business manager will be happy to discuss your coverage with you after your consultation. To schedule an appointment, please call **(804) 249-VEIN** (8346).



Richmond Vein Center

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ClariVein®



A new, minimally invasive device used to treat the source of varicose veins

Richmond Vein Center

www.RichmondVeinCenter.com

How do I know if I have a vein problem?

Many people have visible abnormal veins. These may be spider veins or bulging varicose veins. Others have complications of vein disease, such as darkened or damaged skin around the ankles, open ankle ulcers, phlebitis, or blood clots. Symptoms can include fatigue, aching, throbbing, swelling or heaviness that is worse at the end of the day.

How is ClariVein® used to treat varicose veins?

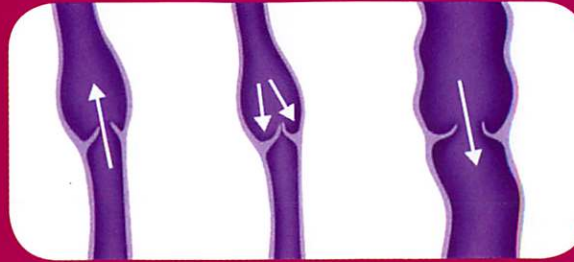
ClariVein® is a special catheter with a rotating tip. It is two to three times thinner than the current devices used in radio frequency and laser treatments.

The ClariVein® catheter treats the abnormal feeding vein that is the underlying cause of visible bulging varicose veins. Performed in the physician's office, the procedure with ClariVein® is minimally invasive and takes less than 30 minutes.

Here are the steps involved:

- Ultrasound visualizes the vein to be treated.
- After a local anesthetic is applied, the special ClariVein® catheter is inserted through a tiny entry point and threaded along the length of the vein to be treated.
- No anesthetic (tumescent anesthesia) is required along the length of the vein since heat is not required.
- The rotating tip of the ClariVein® catheter is set in motion. The tip scrapes the inner lining of the vein as the catheter is withdrawn, leading to closing and disappearance (ablation) of the vein.
- During the catheter withdrawal, a detergent solution is sprayed from the tip to enhance the ablation process.
- The leg is placed in a compression stocking following the procedure for 7 days.
- Normal activities can be resumed immediately after the procedure.
- There may be minor soreness and bruising, which can be treated with over-the-counter non-aspirin pain relievers as needed.

Superficial venous reflux disease is progressive – symptoms will worsen over time if left untreated.



Healthy Vein Valves
& Correct Blood Flow

Damaged Vein Valve
& Incorrect Blood Flow

What happens if I leave my veins untreated?

Venous disease never gets better. It will only stay the same or get worse. Most people seek treatment to improve symptoms, improve appearance, or prevent future complications.

Will treatment of my veins require many days away from work and other daily activities?

No. You should be able to resume normal activities immediately after treatment with the ClariVein® catheter.

Is the procedure painful?

No. The ClariVein® catheter is inserted through a needle-sized entrance point. During the treatment of the vein little or no sensation should be felt.

How does the procedure using ClariVein® compare with alternative approaches to treating varicose veins?

During vein stripping, multiple incisions are made in the groin and calf, and a stripper tool pulls the vein from the leg. Performed in a hospital operating room, this approach typically results in post-procedure pain and bruising.

During radio frequency ablation and laser ablation, heat energy is applied to the vein being treated. This means that a tumescent anesthetic must be injected along the path of the vein, using multiple needle sticks, to protect surrounding tissue.

The procedure using ClariVein® requires insertion only of a thin catheter, not a large vascular sheath. Mechanical action, chemically enhanced, rather than heat is used to ablate the vein, so no tumescent anesthesia is required, and there is no post-procedure bruising or pain.

What happens to blood flow after the diseased vein is ablated?

The abnormal vein that was ablated (collapsed) was not functioning correctly prior to treatment. It was the cause of your vein problem. Once the abnormal vein is treated, blood is re-routed to your normally functioning veins.

What if I need the vein for bypass surgery in the future?

Since the treated vein was diseased – weakened and dilated – it could not be used in a bypass procedure anyway.