



About the ClariVein® Catheter

ClariVein® is a simple-to-use, minimally invasive, small caliber (2 2/3 French), soft, flexible, battery-powered infusion catheter designed to treat peripheral vascular diseases such as varicose veins.

The ClariVein® system is used to treat the root cause of varicose veins. Through the use of targeted and well dispersed delivery of a drug, combined with a rotating tip which agitates the internal lining of the vein, very effective results are achieved and the vein is closed down.

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 Unique ClariVein® Catheter for the treatment of varicose veins

ClariVein® is a special catheter with a rotating tip. It promotes controlled, well dispersed and effective drug coverage of the targeted treatment area to treat varicose veins.

It does this with no pain and minimal discomfort or bruising. No tumescent anaesthesia is needed therefore there are no multiple injections. Due to there being no thermal (heat) energy used in the procedure, there is no risk of nerve damage; there are reduced risks over other treatment options.

ClariVein offers a safe and effective treatment for varicose veins.



ClariVein® is the new technique for the treatment of varicose veins

- Safe & effective
- Pain free with minimal discomfort
- No tumescent anaesthetic & no multiple injections
- No internal leg pressure
- Rapid return to normal activities
- Minimal bruising, or none at all

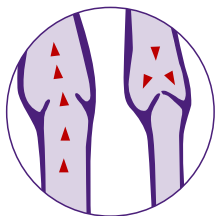
www.clarivein.co.uk



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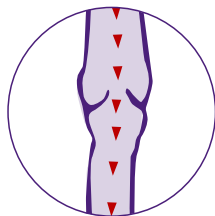
Using ClariVein® to Treat the Source of Varicose Veins

Healthy vein valve



Correct bloodflow

Damaged vien valve



Incorrect bloodflow

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 aching, throbbing, swelling or heaviness that is worse at the end of the day.

What happens if I leave my veins untreated?

Vein 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 under general anaesthesia in a hospital operating room, this approach typically results in post-procedure pain and bruising.

During radiofrequency or laser ablations treatments, tumescent anaesthesia is used to protect the surrounding tissue. In addition to the multiple injections required, this causes internal pressure on the leg which is uncomfortable. As these techniques use heat to damage and close the vein, they can result in significant pain and bruising both during and after the procedure.

The procedure using ClariVein® requires insertion only of a thin catheter, not a large vascular sheath. The rotating tip of the ClariVein® device, combined with the targeted delivery of the sclerosant drug are used to occlude the vein. No tumescent anaesthetic is required, and hence there are no multiple injections, no internal leg pressure, no chance of nerve injury, or pain and bruising as a result of heat energy or surgical procedures.

ClariVein® is a new technique so long term follow up of patients is not yet available to compare the results with Laser or RF over periods of longer than one year. Published data so far suggests that ClariVein® is as effective as these techniques at the 6 month and the 12 month stage after treatment, and further follow up of cases is needed to assess effectiveness in the longer term - this information will be published in the open medical literature as we acquire it.

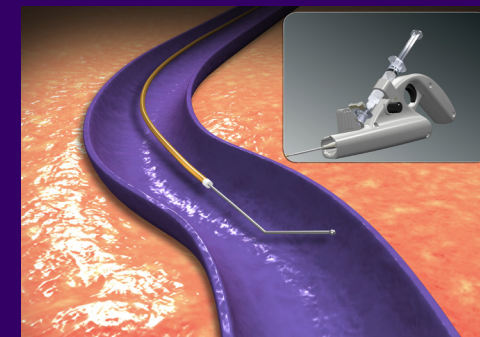
What happens to blood flow after the diseased vein is closed down (occluded)?

The abnormal vein that was ablated 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.

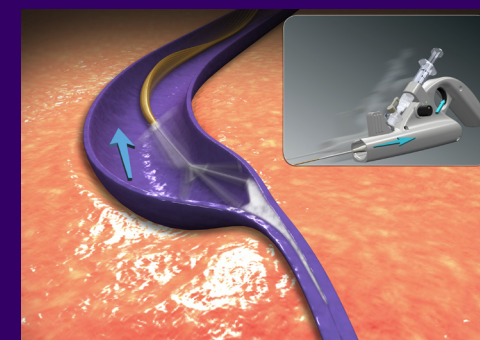
What if I need the vein for bypass surgery in the future?

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

How it works



1. The ClariVein catheter is introduced into the vein to be treated under ultrasound guidance. This is done through a tiny access point and the catheter is threaded along the length of vein to be treated. No tumescent anaesthesia is required.



2. Once in the correct position, the rotating tip of the catheter is set in motion which sensitises and damages the lining of the vein. At the same time, a sclerosant drug is sprayed from the tip of the catheter and causes the vein to close. The device is pulled back along the vein to treat the full length required.

3. After short procedure is complete, patient returns to normal activity the same day.