



# Southern Arizona Laser & Vein Institute

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## VENASEAL™ CLOSURE SYSTEM

Dr. Michael Probstfeld is one of the first surgeons in Southern Arizona to offer the latest technology to treat varicose veins. This new procedure, called the VenaSeal™ Closure System, improves blood flow by sealing—or closing—the diseased vein. It uses a carefully researched and tested specialized medical adhesive to the diseased vein. The adhesive seals the vein and blood is rerouted through nearby healthy veins.

Dr. Probstfeld numbs the area of your leg to be treated with a small amount of local anesthesia that does not cause swelling or hardening of nearby tissue. Using a small catheter, he then injects this specialized adhesive slowly into your varicose vein applying pressure to ‘seal’ the vein. This process virtually eliminates the risk of nerve or other injuries that were possible with older technologies that required heat to close the veins.

The bottom line is closure of unsightly and potentially dangerous varicose veins in a simple office procedure that allows you to return to normal activity almost immediately – in most cases without having to wear compression stockings.

### **What to Expect**

**Before the VenaSeal™ Closure Procedure:** You will have an ultrasound imaging exam of the leg that is to be treated. This exam is important for assessing the diseased superficial vein and planning the procedure.

**During the Procedure:** Dr. Probstfeld will discuss the procedure with you, including the following brief summary:

- You may feel some minor pain or stinging with a needle stick to numb the site where the doctor will access your vein.
- Once the area is numb, Dr. Probstfeld will insert the catheter (a small hollow tube) into your leg. You may feel some pressure from the placement of the catheter.
- The catheter will be placed in specific areas along the diseased vein to deliver small amounts of the medical adhesive. You may feel some mild sensation of pulling or tugging. Ultrasound will be used during the procedure to guide and position the catheter.
- After treatment, the catheter is removed and a bandage placed over the puncture site.

**After the Procedure:** You will be taken to the recovery area to rest where Dr. Probstfeld will discuss with you what to watch for following treatment.

## **Clinical & Lifestyle Benefits**

- **Minimally Invasive:** The VenaSeal Closure System reduces discomfort and recovery time. Only one needle stick of numbing medicine is required during the procedure, and no compression stockings\* are required afterward.  
*\* Some patients may benefit from the use of compression stockings post-procedure.*
- **Faster Recovery:** The VenaSeal Closure System is designed to reduce recovery time. Many patients return to normal activity immediately after the procedure. Your doctor can help you determine when you can return to normal activity.
- **Patient Comfort:** The VenaSeal Closure System closure system is designed to allow rapid return to normal activities

## **Frequently Asked Questions:**

- **When will my symptoms improve?**  
The diseased superficial vein caused the symptoms. Thus, symptoms may improve as soon as the diseased vein is closed.
- **When can I return to normal activity?**  
The VenaSeal™ closure system procedure is designed to reduce recovery time. Many patients return to normal activity immediately after the procedure. Your doctor can help you determine when you can return to normal activity.
- **Is the VenaSeal™ Closure System procedure painful?**  
Most patients feel little, if any, pain during the outpatient procedure.
- **Is there bruising after the VenaSeal™ Closure System procedure?**  
Most patients report little-to-no bruising after the VenaSeal™ closure system procedure.
- **What happens to the VenaSeal™ Closure System procedure adhesive?**  
Only a very small amount of VenaSeal™ closure system procedure adhesive is used to close the vein. Your body will naturally absorb the adhesive over time.
- **How does the VenaSeal™ Closure System procedure differ from thermal energy procedures?**  
The VenaSeal™ closure system procedure uses an adhesive to close the superficial vein. Thermal energy procedures use heat to close the vein. The intense heat requires a large volume of numbing medicine, which is injected through many needle sticks. The injections may cause pain and bruising after the procedure.

**More questions?** Please call us at **(520) 318-3004** so we can answer any questions or concerns you have after your treatment.