UNDERSTANDING VEIN DISEASE
Do you need to sit down during your work day because your legs **ache** and/or **swell**?

Do you miss out on doing the activities you love because your legs feel **heavy** or **painful**?
Do you have burning or restless legs making it hard to sleep at night and affecting your daily routine?

These are some of the often **misunderstood** and easily **misdiagnosed** signs and symptoms of **Vein Disease**.
WHAT IS VENOUS DISEASE?

Vein Disease - also called Venous Disease or Chronic Venous Insufficiency (CVI) - is a medical condition.

It is recognized by Medicare, Medicaid and private insurance carriers as a medical condition.
Possible Genetic Risk Factors

• Age 40+
• Gender – women are more likely to develop the disease
• Family history

Possible Lifestyle Risk Factors

• Prolonged periods of sitting and/or standing
• Obesity or excessive weight
• Multiple pregnancies
• Heavy lifting
• Smoking

WHAT MOST PEOPLE DON’T KNOW:

Varicose veins are **NOT** spider veins and they are **NOT** considered only cosmetic.¹

Vein disease can affect **ALL** people, regardless of age, gender or race.

IMPACT OF VEIN DISEASE
COMPARSED TO OTHER WELL KNOWN DISEASES

Venous Reflux Disease
Coronary Heart Disease
Peripheral Arterial Disease
Congestive Heart Failure
Stroke
Cardiac Arrhythmias
Heart Valve Disease

Millions of People
0 5 10 15 20 25

People who are diagnosed
Total of people who may have it

30 million Americans are affected\(^2,3\)

Only roughly 6.5% of them seek treatment\(^3\)

And less than 1% actually get treated!\(^3\)

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1 Chart courtesy of American Heart Association, Sir Brand et al. "The Epidemiology of Varicose Veins: The Framingham Study"

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Healthy leg veins have valves that keep blood flowing to the heart. Vein disease develops when the valves stop working properly and allow blood to flow backward and pool in the lower leg veins.\(^1\)

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IT’S MORE THAN JUST WHAT YOU CAN SEE

Images courtesy of Gordon Gibbs, M.D. and Jennifer Heller, M.D.

Sometimes it’s about how you feel:
- Heaviness
- Burning
- Aching
- Pain
- Fatigue
- Itching
- Cramping
- Restless leg

Spider Veins
Swelling
Skin Cracking/Sores
Varicose Veins
Skin Color Changes

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Vein disease is a chronic condition. Early treatment and detection of the disease is important.

At this severe stage, patients are typically in wound care centers undergoing radical wound treatments.

Images courtesy of Gordon Gibbs, M.D. and Jennifer Heller, M.D.
ADVANCED - STAGE DISEASE

TAKE BACK YOUR MOBILITY!
If you or your loved one has an open wound, ask your doctor if it could be a venous ulcer.

Proper diagnosis and treatment can dramatically improve the healing of a venous ulcer.

70-90% of lower leg ulcers are actually venous ulcers.1,2


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HOW TO LEARN IF YOU HAVE VEIN DISEASE?

An ultrasound scan is the only definitive way to diagnose it.

The technician uses this test to look inside the veins of your leg to determine if the valves are working properly.

Although insurance coverage varies by individual plan and the severity of disease, MOST insurance carriers, including Medicare, will cover necessary clinical tests done to help your doctor diagnose or rule out a suspected illness or condition.¹

(Consult your insurance carrier for specific coverage rules.)

WHAT CAN I DO ABOUT IT?

THIS DISEASE IS COMMON AND TREATABLE!

Your doctor will put together your treatment plan based on:

• ultrasound test results
• a history & physical that focuses on your symptoms, family history and lifestyle factors
TREATMENT OPTIONS

Conservative Therapies are required by insurance carriers. They can require up to three months of conservative therapies that show limited to no improvement to symptoms or daily life before giving approval for treatment.

**Examples:** Exercise, leg elevation, compression stockings, over-the-counter anti-inflammatory medication, or Unna boot (for ulcers)

Compression stockings **will not cure varicose veins**, although they are effective in relieving symptoms caused by the condition and may reduce the risk of blood clots.¹

Conservative measures **MAY only offer TEMPORARY relief of symptoms**

**CURRENT TREATMENT OPTIONS**

**Treatment Options for Vein Disease**

**Most common treatment option**

- **Heat w/Multiple Needle Sticks**
  Numbing agent is given by multiple needle sticks down the leg and heat is used to close the vein.

- **No Heat No Multiple Needle Sticks**
  No multiple needle sticks to give numbing agent down the leg and heat is not used. Mechanical device is used to deliver the closure therapy to the vein.

- **No Heat No Multiple Needle Sticks**
  No heat, no multiple needle sticks to deliver numbing agent down the leg. Medical adhesive is used to close the vein.

**New technology**

- **EVLT™* system (laser)**
- **ClosureFast™ catheter**
- **ClariVein™* catheter**
- **Varithena™* foam**
- **VenaSeal™ system**

**Least common treatment option**

- **Surgical Vein Stripping**
  The original method of removing the vein. This procedure is rarely done in the U.S. as it involves surgery under sedation, scarring and long recovery periods.

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“Resterilized” or “reprocessed” medical devices are used in the medical field with surgical tools and instruments that are autoclaved/sterilized at high heat and pressure after each patient use.

There are companies that collect used ClosureFast catheters, re-sterilize them, and then sell them back to doctors to be used in other patients.¹

REFERENCES


To learn more, view the video:

http://medtronicendovenous.com/patients/6-0-find-a-doctor/
Most patients report a noticeable improvement in their symptoms within one week to two weeks following the ClosureFast™ procedure.  

**SUMMARY - WHAT HAVE YOU LEARNED?**

- **TREATMENT IS EASY**  
  Most procedures are done in office without sedation  

- **TREATMENTS ARE MINIMALLY INVASIVE**  
  Quickly able to resume normal activities, including work!  

- **NEW TECHNOLOGY**  
  Eliminates multiple needle sticks and the need for compression stockings¹.

**IT’S NOT JUST COSMETIC**  
Because vein disease is a medical condition, most insurance plans cover its treatment. *(Speak with your insurance provider prior to seeking treatment.)*

**FIND RELIEF FROM SYMPTOMS!**  
Most patients report a noticeable improvement in their symptoms within one week to two weeks following the ClosureFast™ procedure.²

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¹. Some patients may benefit from the use of compression stockings post-procedure.  
FIND RELIEF FROM VARICOSE VEINS

MINIMALLY INVASIVE TREATMENTS AVAILABLE

RAPID RETURN TO NORMAL ACTIVITY
STATEMENTS

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**Intended Use/Indications:** The VenaSeal™ Closure System (VenaSeal™ system) is indicated for use in the permanent closure of lower extremity superficial truncal veins, such as the great saphenous vein (GSV), through endovascular embolization with coaptation. The VenaSeal system is intended for use in adults with clinically symptomatic venous reflux as diagnosed by duplex ultrasound (DUS).

**Contraindications:** Separate use of the individual components of the VenaSeal closure system is contraindicated. These components must be used as a system. The use of the VenaSeal system is contraindicated when any of the following conditions exist: previous hypersensitivity reactions to the VenaSeal™ adhesive or cyanoacrylates, acute superficial thrombophlebitis, thrombophlebitis migrans, acute sepsis exists.

**Potential Adverse Effects of the Device on Health:** Below is a list of the potential adverse effects (e.g., complications) associated with the use of the VenaSeal system. The adverse events associated with the device are similar to those with traditional endovenous thermal ablation procedures. In addition, there are several risks unique to the VenaSeal system due to its material and product design as an implant. These potential adverse events include, but are not limited to, allergic reactions to cyanoacrylates, such as hives, asthma, hay fever and anaphylactic shock, arteriovenous fistula, bleeding from the site of access, deep vein thrombosis (DVT), edema in the treated leg, embolization, including pulmonary embolism (PE), hematoma, hyperpigmentation, infection at the access site, non-specific mild inflammation of the cutaneous and subcutaneous tissue, pain, paresthesia, phlebitis, superficial thrombophlebitis, urticaria or ulceration may occur at the site of injection, vascular rupture and perforation, visible scarring.

Warning, precautions, and instructions for use can be found in the product labeling. For VenaSeal, this labeling can be found at [http://useifu.venaseal.com](http://useifu.venaseal.com)

**CAUTION:** Federal (USA) law restricts these devices to sale by or on the order of a physician.