

Say Goodbye to Varicose Veins

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Boulder Community Health

Varicose Veins



Telangiectasia



Spider Veins



Forms of “varicose veins”

- Ropey bulging veins
- Spider veins
- Telangiectasias
- No visible veins but symptoms

Varicose Veins: Epidemiology

- Affects 50.5% of women, 30.1% of men
- Incidence increases with age, obesity
- Combined congenital and environmental causes
- Not just cosmetic – can be medically very dangerous
- Can have symptoms with no visible veins

Varicose Veins: Symptoms

- HASTI: Heaviness, achiness, swelling, throbbing, itching
- Restlessness, cramps
- Venous stasis cellulitis or dermatitis: redness, hyperpigmentation; lipodermatosclerosis
- Venous stasis ulceration: scaling, non-healing or recurrent ulcers
- Usually worse at end of day, or with prolonged standing or increased activity

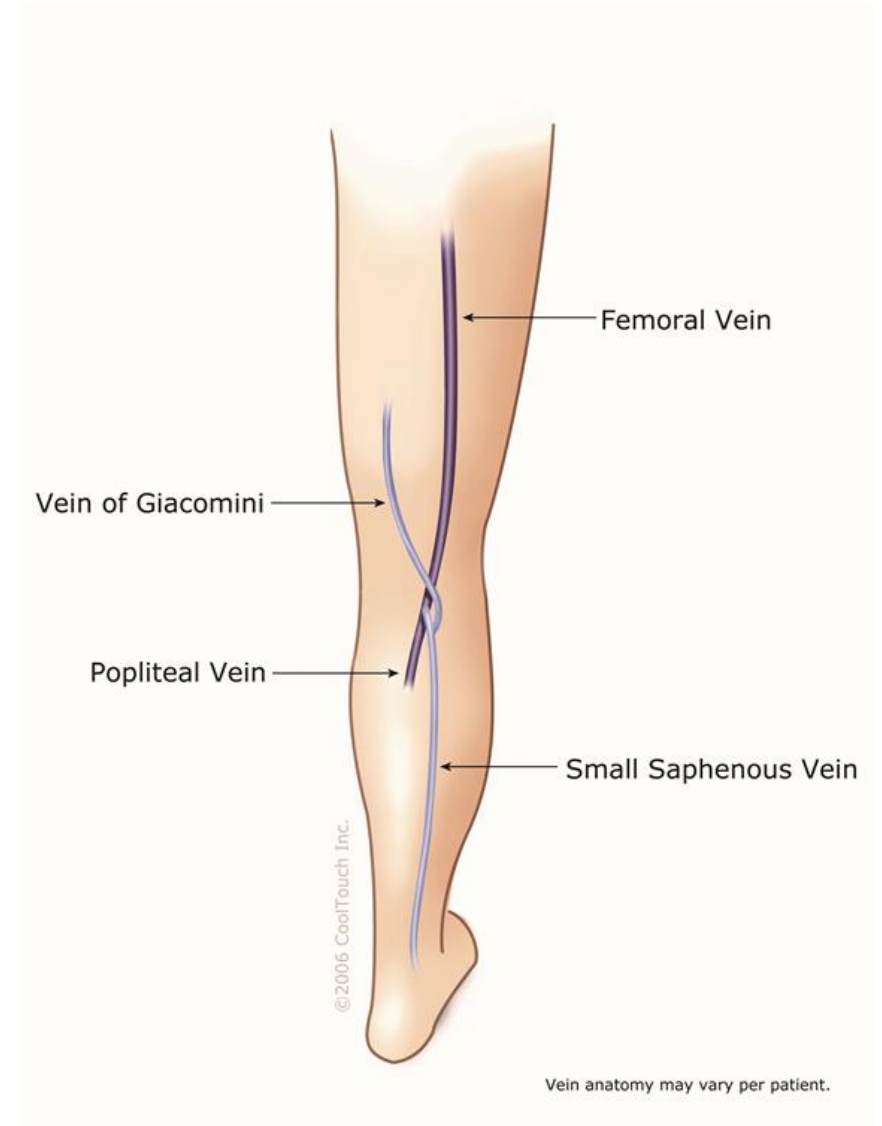
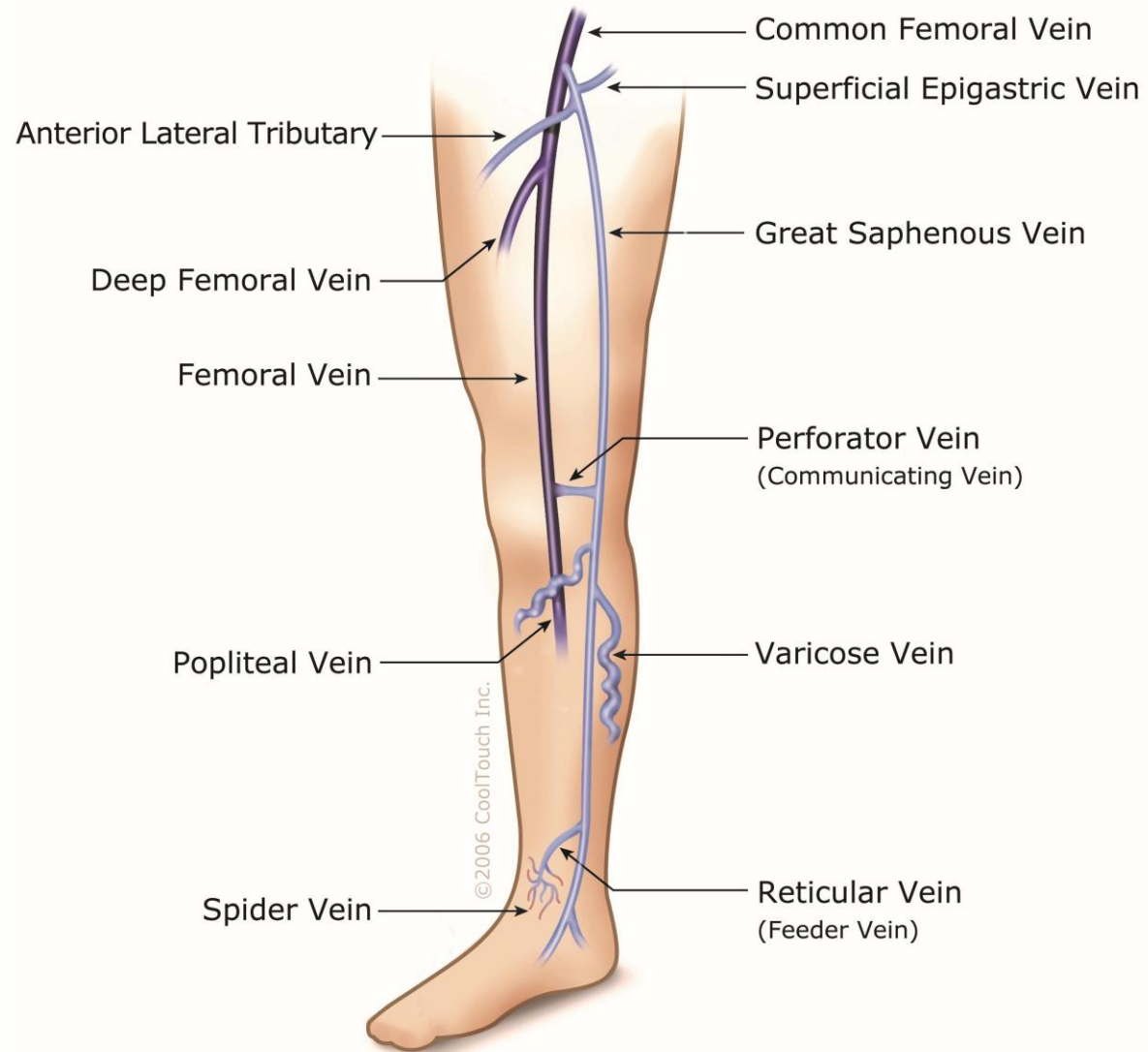
Venous Stasis Dermatitis, Lipodermatosclerosis, Ulceration



With Treatment



Vein Anatomy



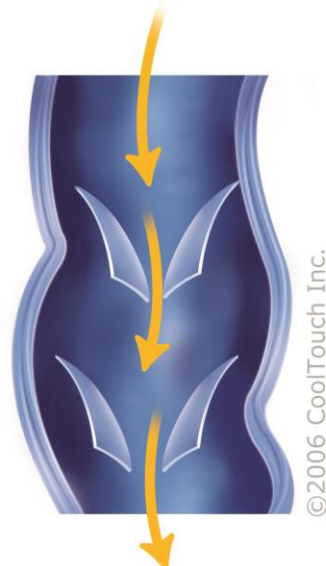
Valvular Incompetence

Normal Vein with
Correctly Working
Valves and Blood Flow



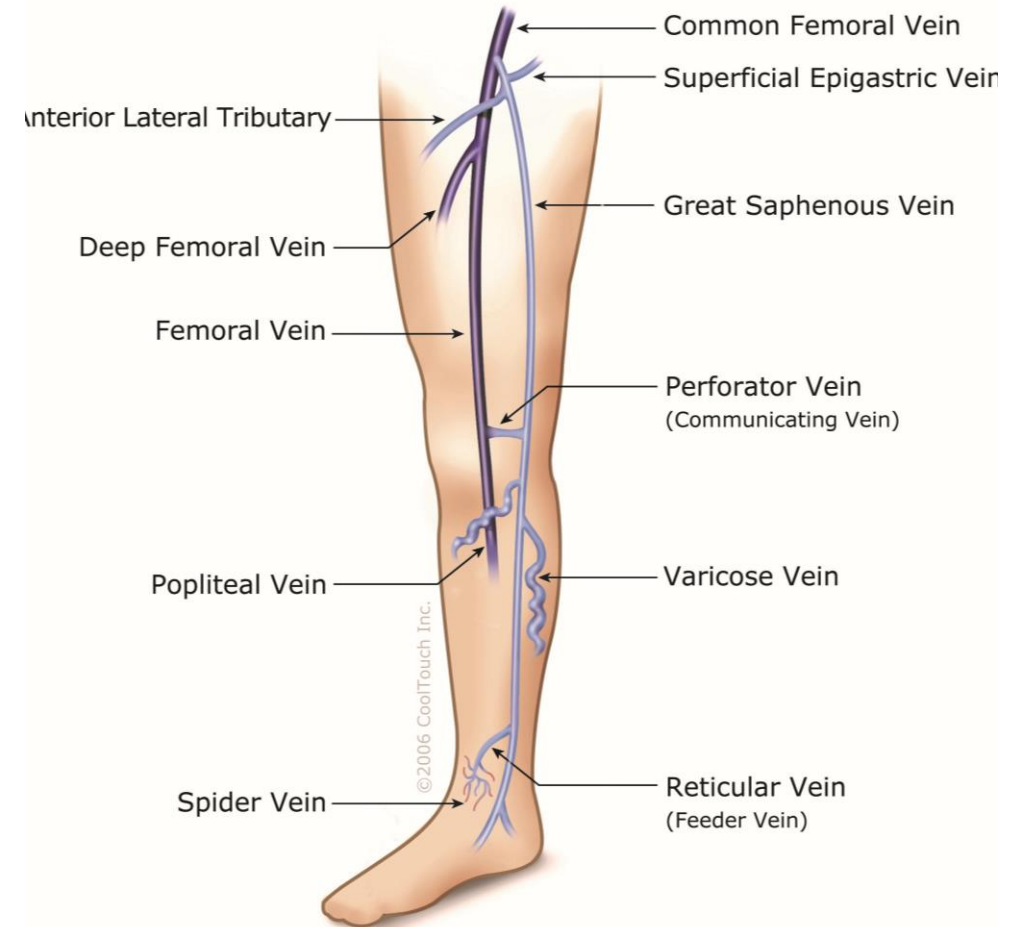
Valves open to allow blood to move up towards the heart and then close, preventing blood from flowing back down the leg again.

Varicose Vein with
Abnormal Vein Valves
and Blood Flow

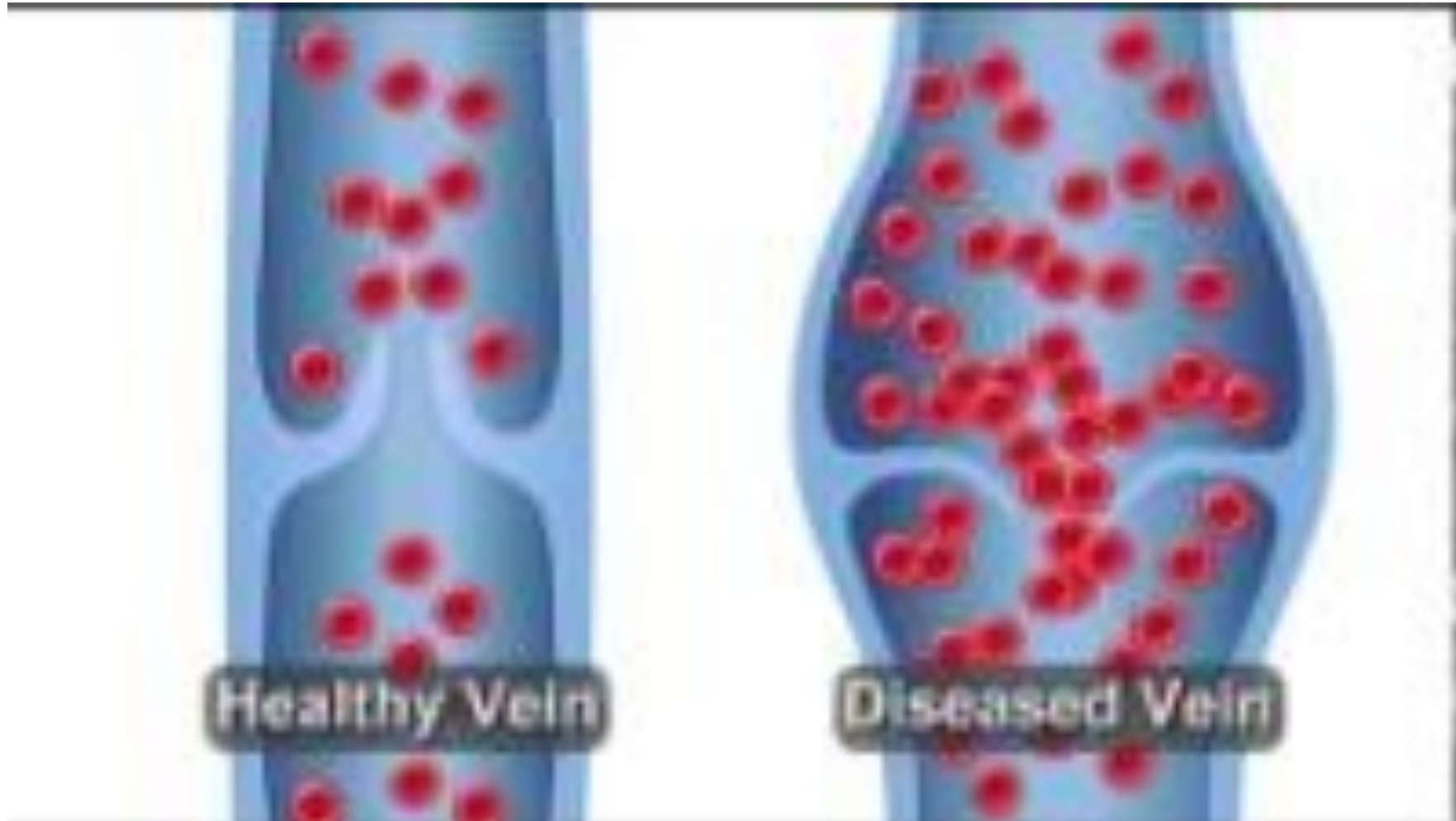


Damaged valves allow blood to flow backwards down the leg.

Symptomatic Varicosities



Valvular Physiology



Have You Heard This?

- “Live with it!” “Nothing can be done.”
- “My mom had horrible varicose veins, but she didn’t do anything about them.”
- “My doctor says they are just cosmetic.”
- “I’ve always had these symptoms, but never thought they might be due to veins.”

- Exercise to improve circulation:
 - Bicycling and swimming
 - When sitting down, rotate feet at the ankles, extend legs, contract calf
 - High-impact exercises such as running may be uncomfortable
- Maintain a healthy weight
 - Increased BMI compounds effects of gravity and increases central pressures

- Elevate legs
 - At or above heart level
 - Avoid crossing legs
 - When sitting, use footrest
- Avoid long periods of sitting or standing
- Compression, Compression, Compression

Compression Stockings

- Minimum 20-30mmHg compression, 30-40mmHg if possible

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 SUPPORT HOSE STORE	Support Hose Store P: 888.340.9825 www.supporthosestore.com
Amazon Retailer Link: https://tinyurl.com/amazon-sigvaris	Notes:

- Draxe.com:
 - Essential oils:
 - cypress essential oil: 5 drops twice a day x few weeks
 - Anti-inflammatory diet: high in fiber, antioxidants, Mg++, diuretics, apple cider vinegar, witch hazel
 - Herbs: horse chestnut, bilberry, butcher's broom
- Homeopathicdoctor.com:
 - Hamamelis, pulsatilla, graphite, arnica

Traditionally Accepted Treatments

- Local wound care
- Foam or saline sclerotherapy
- Vein stripping or ligation
- Surgical phlebectomy

New, Minimally Invasive Treatments



- ClosureFast/EVLT/CTEV/VNUS
- Microfoam Sclerotherapy Microphlebectomy
- Non-Thermal Ablation (Varithena, VenaSeal)

Ultrasound: Key to Success

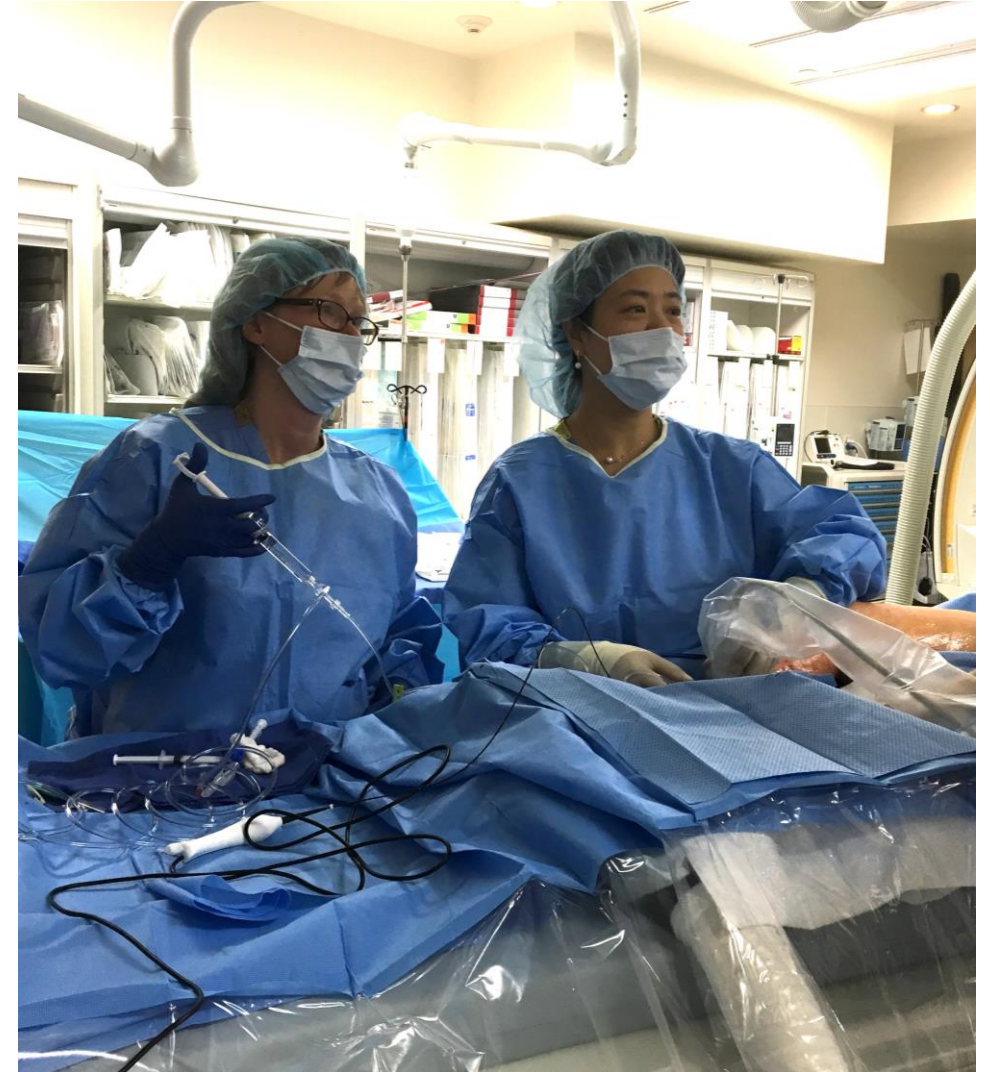
- Identifies locations of valvular incompetence. Ultrasound and consultation appointment at the same time.
- Ultrasound done personally by the operating physician.

- Types of treatments needed are determined at time of consultation.
- Insurance pre-authorization done prior to scheduling procedure.
- IR staff will call when insurance approval received.



Varicose Vein Procedures at BCH

- Completely sterile environment
- IR staff and nurses assist MD
- Conscious sedation if needed

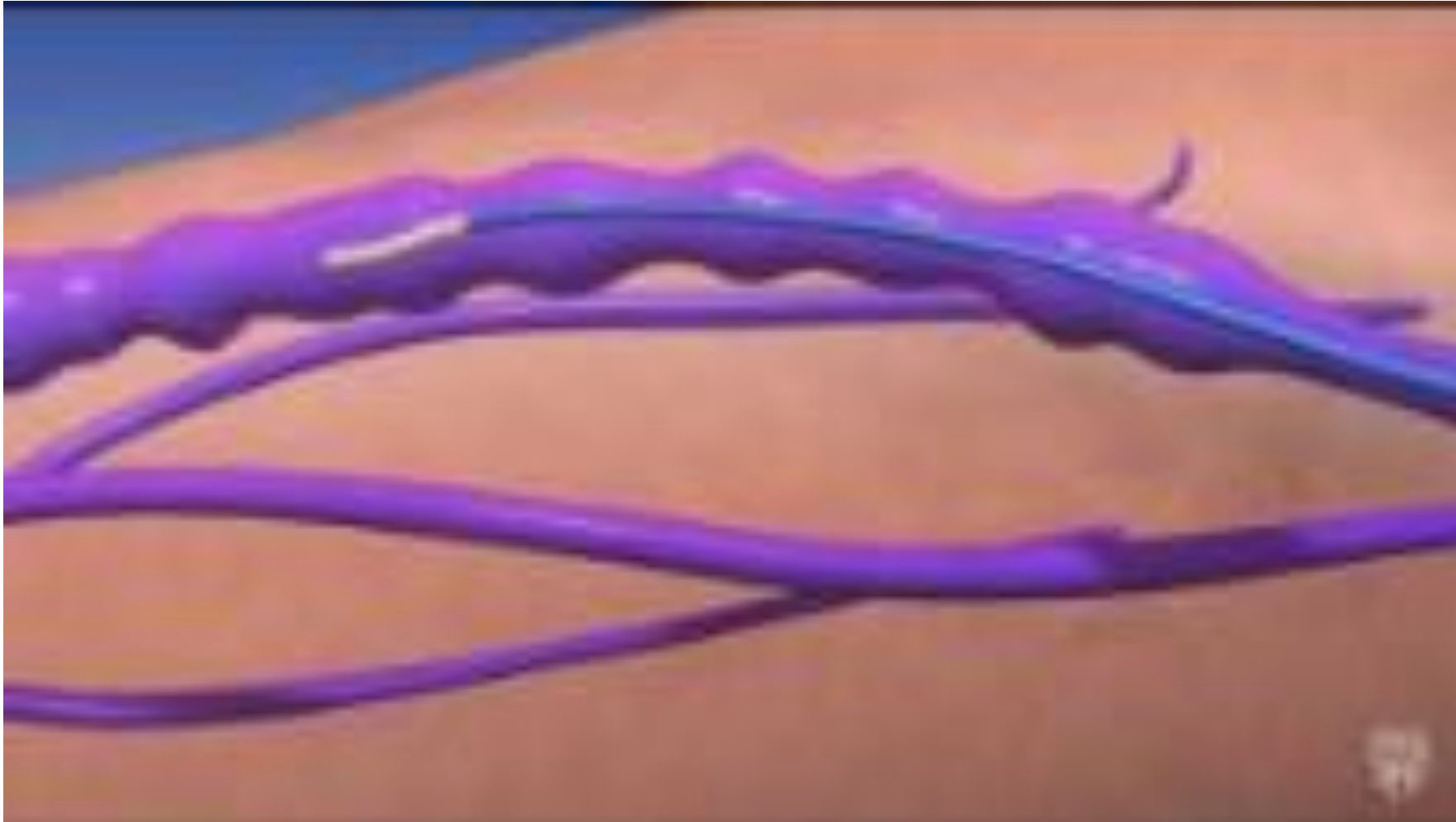


Laser Ablation

- Tumescant anesthesia delivered throughout treatment zone
- Laser ablation :
 - VenaCure EVLT system
 - 1470nm laser from AngioDynamics

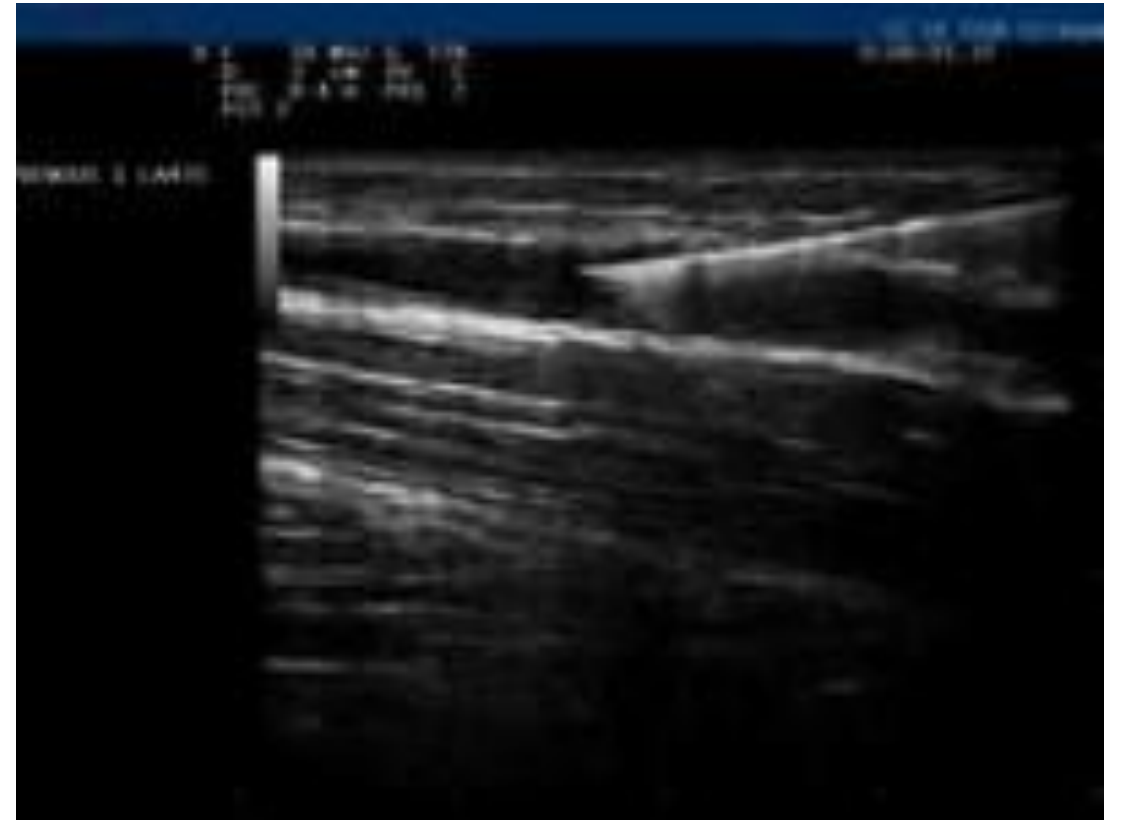


Laser Ablation



Sclerotherapy

- Ultrasound guided intravascular injection of sclerosant



What about those ropes?



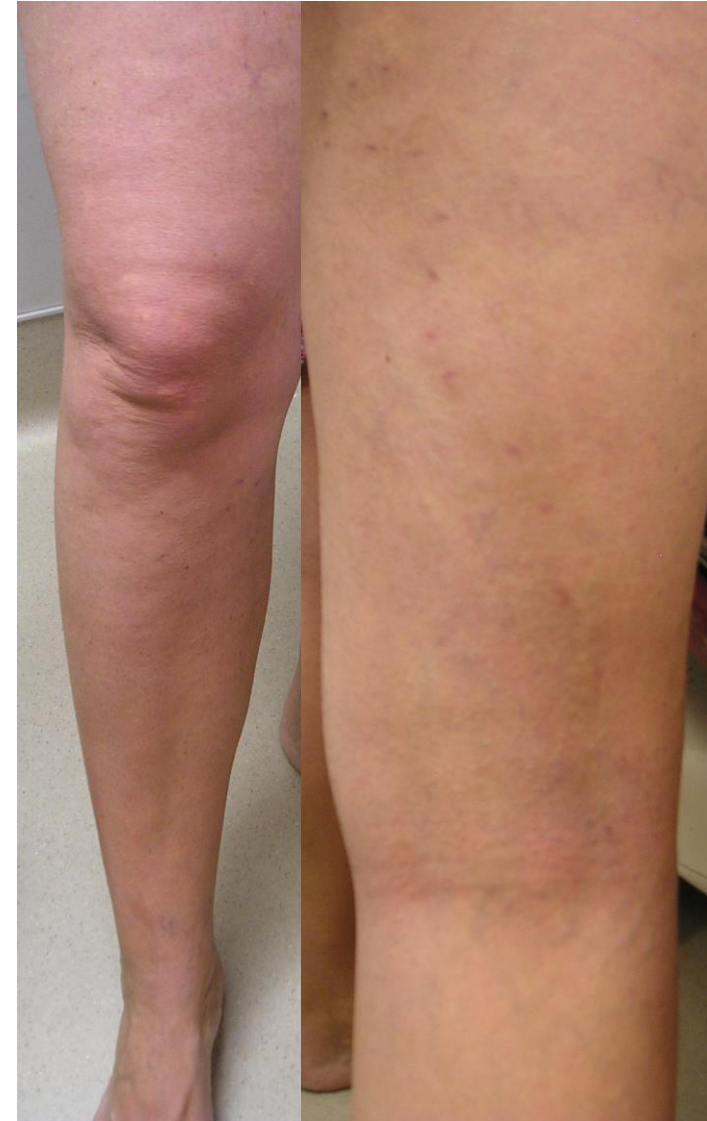
Microphlebectomy





- Resolution of ropey varicosities
- Minimal scar or discoloration
- Elimination of medical risks









September



December



Telangiectasia/Spiders



Spider Vein Injections



Spider Vein Sclerotherapy



Spiders and Telangiectasias

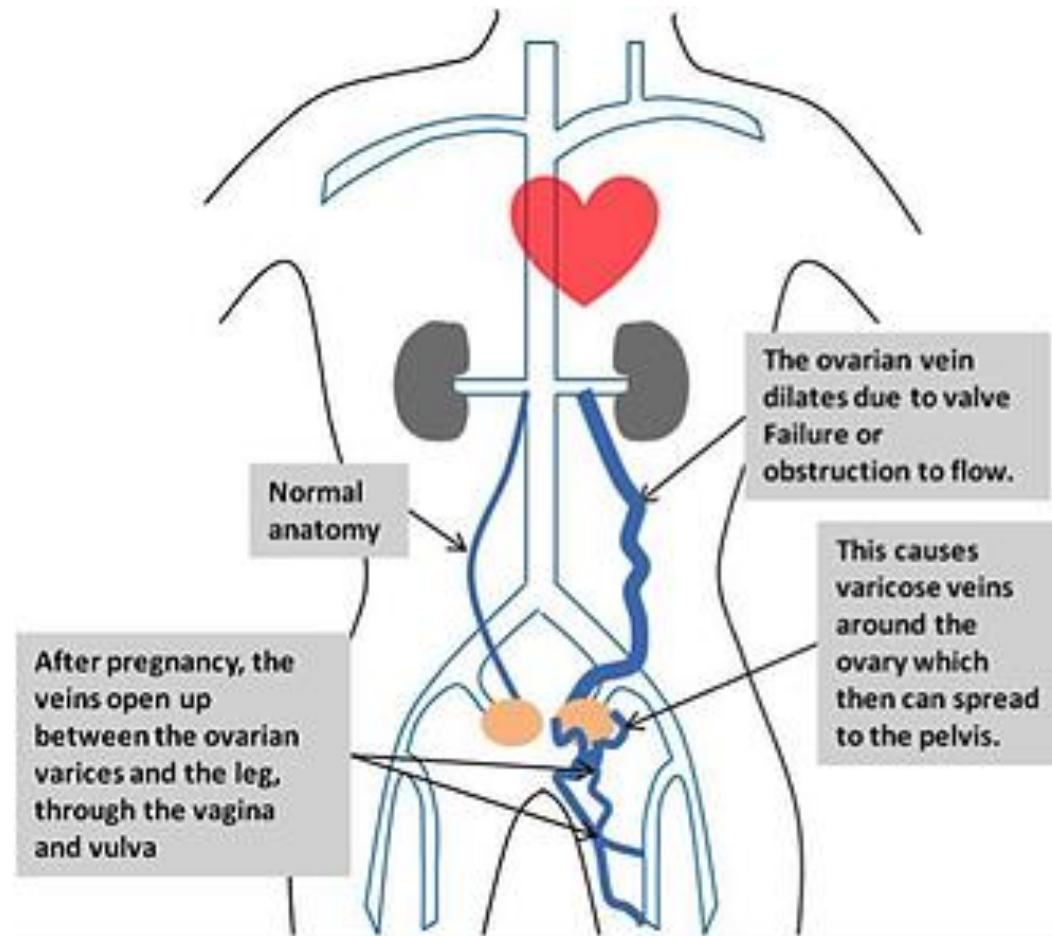


Spiders and Telangiectasias



What Else?

- Gonadal Vein Insufficiency: Pelvic Congestion Syndrome



Thank You!

Questions?

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