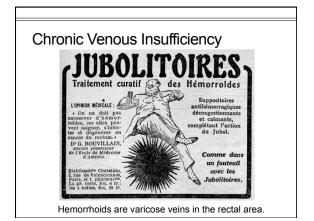


Chronic Venous Insufficiency

- · Impaired venous return
- Capillary permeability and easy bruising
- Compromised vein valves
- Varicose veins
- Edema, swelling, and heaviness (increased leg circumference)
- Low grade inflammation and potential ulceration, Itching and irritation
- Palpable nodules due to fibrin accumulation
- Pressure and congestion in abdominal, prostatic, and uterine regions

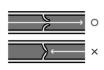
Murray & Pizzomo. Encyclopedia of Natural Medicin





Chronic Venous Insufficiency

- Lack of muscle tone and tissue support lead to flaccidity of tissue
- Once veins become to distended and dilated, valves begin to malfunction under pressure
- Deep varicose veins may develop blood clots which can dislodge and lead to stroke heart attack or pulmonary embolism.



Schematic representation of venous valv

Valves prevent backward flow of blood within the vein. They keep blood in the vein moving toward the heart.

Chronic Venous Insufficiency

- 50 % of those with varicose veins have family history
 4X more common in women. May be due to influence of
- May be due to influence or estrogen and progesterone.

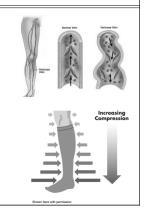
 Pregnancy- Due to hormones as well as increased blood volume and downward pressure on the pelvis and legs.

- · Prolonged sitting or standing
- Obesity and lack of tissue tone
 Inactivity (bed rest pressure points/sores)
- Chronic constipation and exertion



Lifestyle modifications:

- Get more exercise to encourage pumping and movements of muscles surrounding veins to push venous flow up legs and inhibit blood stasis. (Paleo cultures walked many miles per day)
- Elevate legs regularly.
- · Avoid tight fitting clothing that inhibits blood flow.
- · Compression socks help keep veins supported and discourage stasis

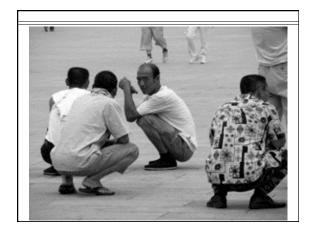


Dietary Modifications

Eat more fiber rich foods such as vegetables, fruits, legumes, and grains. A study in the Lancet published the following results. Varicose Veins in

Culture	Varicose veins % of Population	Daily Stool Weight Indicative of Fiber Content	Dietary Habits
"Traditional" area. African Community	1-4%	490g	High Fiber Low Refined carb
"Developing" area. Tanzania Community	5%	228g	High Fiber Some Refined Carb
"Industrial" area. Michigan Community	18-30%	115g	Low Fiber High Refined carb

It is hypothesized that low fiber diets lead to smaller harder stools that are harder to pass and lead to straining during defecation. This straining puts pressure on the abdomen and on the veins and obstructs the venous return of blood leading to a higher incidence of varicose veins.



Dietary Modifications

- · Include fibrinolytic foods in the diet.
- Include fibrinolytic foods in the diet. A 1999 published article studies the effects of treatment on venous insufficiencies with a fibinolytic agent Factor XIII. The study found that this treatment resulted in the reduction of endothelial permeability and stabilization of fibrin levels. (Treatment of venous ulcer with fibrin stabilizing factor: Experimental investigation of effects on vascular permeability. Vasa. 1999, Aug;28(3): 160-3.)
- permeability. Vasa. 1999, Aldj. 28(3): 100-3. Certain foods too are known to have a fibrinolytic effect. These are cayenne, ginger, garlic, and onions, paprika, turmeric (Murray & Pizzorno). Liberal consumption of these spices is encouraged.
- Bromelaine (500-750 mg 2-3x/day between meals is also an effective fibrinolytic dose)



Polyphenols-Flavonoids

- · Flavonoids in the Diet:
- In one study, a diet high in flavonoids appeared to cut the chances of dying from heart disease by 50% in women. Another study reported a 75% drop in stroke risk for men who had the highest intake of flavonoids, compared with those who had the lowest.



Polyphenols- Flavonoids

Flavonoids: Water soluble plant pigments
• The human body cannot produce bigliavonoids, so they must be supplied in the diet.

- Yellow & Orange color (Fall leaves ie. Ginkgo)
- Reduce capillary permeability- Bruising, edema, venous issues
- Inversely associated with coronary disease
- Protect Cholesterol from oxidative damage
- · Antihistaminic- Stabilize mast cell



Family: Polygonaceae

Polyphenols-Flavonoids

- Quercetin- Most abundant and most potent flavonoid in plants.

 Onions, apples, green tea, violets, pansies, citrus.
- Quercetin may help relieve hay fever, sinusitis, and asthma because it can block allergic reactions to pollen and reduce inflammation in the airways and lungs.
- Quercetin blocks an enzyme that leads to accumulation of sorbitol, which has been linked to nerve, eye, and kidney damage in those with diabetes.





Buckwheat

Fagopyrum esculentum

- Rutin is effective in treating venous edema and hypertension and in preventing deterioration of the distal venous system.
- Rutin inhibits platelet aggregation, as well as decreasing capillary permeability.
- Rutin has proved to be especially helpful in preventing recurrent bleeding caused by weakened blood vessels, preventing and treating bruises.
- Buckwheat also contains almost 86 milligrams of magnesium in a one-cup serving. Magnesium relaxes blood vessels, improving blood flow and nutrient

dema and increased capitary stration in versous hypertereases and description of active comparative clinical registry. Itment of Biomedical Sciences, Chief-Pescara University, and the San Valentino Vascular Scree

Dietary Modifications

- Eat more polyphenol rich foods, especially dark berries. ANTIOXIDANTS!!
- A study on anthocyanidins and their effects on vessel fragility showed that they improved the vessel integrity by increasing the endothelium barrier, stabilizing the membrane phospholipids, and increasing the GAG content of the connective ground substance. (seals the vessels)
- These results lead to better muscular tone in the vessels. (Anthocyanosides and the walls of the microvessels. Minerva Med. 1977, Oct 31,68(52): 3565-81).
- Grape seed extract, pine bark extracts, hawthorn pansy, and violet, are all high in anthocyanidins and have demonstrated improvement of varicose



Polyphenols- Proanthocyanidins

The main functions of proanthocyanidins are:

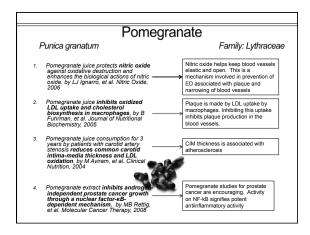
- · antioxidant activity
- · stabilization of collagen
- · maintenance of elastin in connective tissue, blood vessels and muscle.
- · Reduction of edema
- · visual performance
- · Found to cross blood brain barrier: ADD. Alzheimer's.

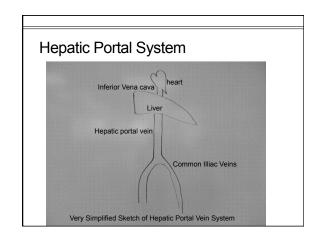
Polyphenols- Proanthocyanidins

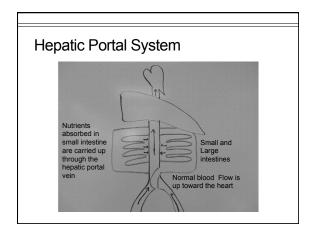
· Proanthocyanidins: OPC's- Grape seed & Skins, Pine Bark extract (pycnogenol), dark berries, bilberry, cranberry, black currant, pomegranate, green tea.

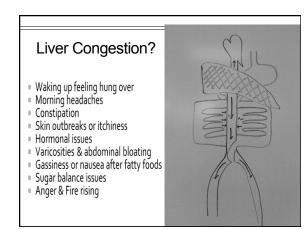
Pine Bark Extract

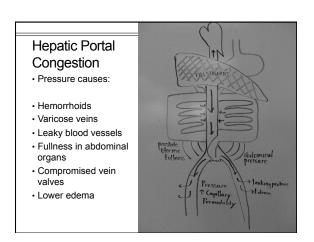
Proanthocyanidins are condensed tannins. They are small enough to be absorbed and exert their astringing effects from within.

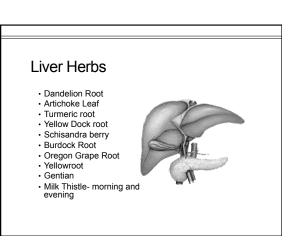


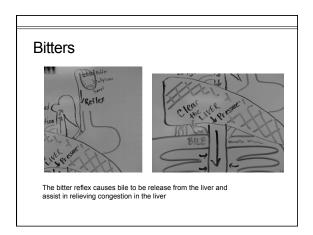


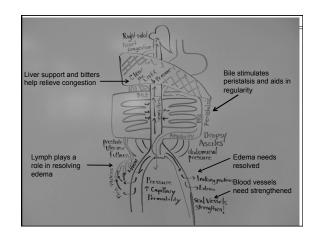


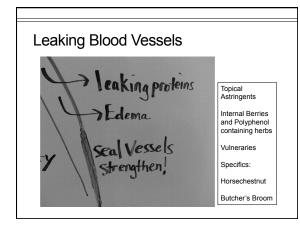


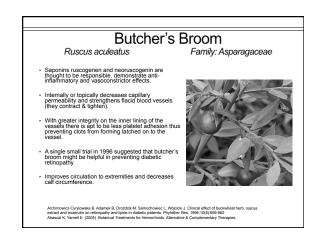


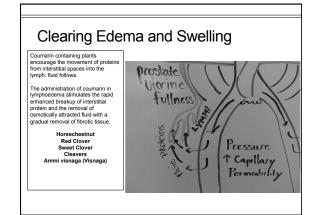


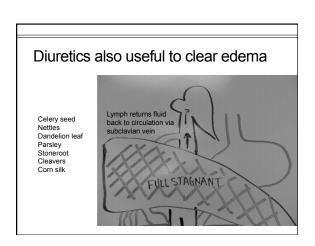












Horsechestnut

Aesculus hippocastanum

Research Indicates that taking horsechestnut extract leads to:

- · Increased venous tone and contraction
- Decrease capillary permeability
 Inhibition of the enzymes elastase and hyaluronidase in vitro
- nyaluronidase in vitro

 Decreased histamine and serotonin
 induced capillary hyperpermeability thus
 decreasing inflammation

 One formal meta-analysis, and at least 3
 systematic reviews in support of horse
 chestnut seed extract's efficacy in treating
 chronic venous insufficiency.
- chesthut seed extract's efficacy in treating chronic venous insufficiency. Horse chesthut seed extract's equivalence to compression therapy has been demonstrated most significantly in the early stages of chronic venous insufficiency.

Family: Hippocastanaceae



Horsechestnut is also used topically in salves for bruising and would be useful in lymphatic massage

1-2 g of dried seed per day. 2-6ml of 1:2 liquid extract, 5-15ml of 1:5 tincture daily. Preparations containing 100mg escin per day. Horsechestnut tablets standardized to 40mg escin: 2-3 daily. Not on empty stomach. Do not apply to broken skin.

Pattern Check...

- · Client:
- · Frequently and easily bruises
- · Has bleeding gums
- · Complains of terrible gassiness, bloating, and diarrhea
- · Eats little greens
- · Has taken antibiotics
- · Does not eat probiotics or yogurt





Pattern Check...

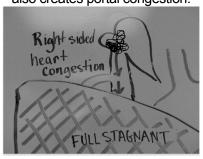
Vitamin K is a blood clotting agent necessary to prevent bleeding and easy bruising. It is present in dark leafy green vegetables.

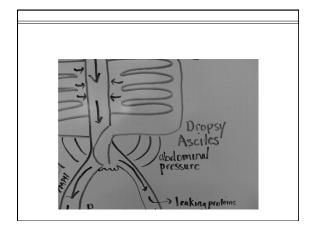
Probiotics help our bodies to absorb Vitamin K. Lack of healthy flora can lead to gassiness bloating and diarrhea.

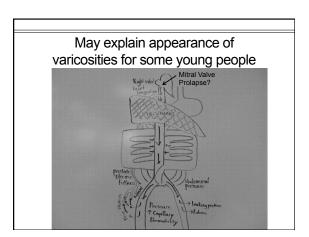
Supple-mentation with vitamin K has also been shown to lessen, and prevent the development of, varicose veins (Journal of Vascular Research 7/07).



Right sided heart congestion also creates portal congestion.







Stoneroot

Collinsonia canadensis

Family: Lamiaceae

- It has been used to reduce venous pressure, helping prevent the progression of hemorrhoids and varicose veins.
- · It has also been used for fluid retention and to alleviate PMS symptoms.
- · Though to be helpful in relief of pelvic congestion.



The Eclectic Materia Medica, Pharmacology and Therapeutics by Harvey Wickes Felter, M.D. (1922)

Stoneroot

Collinsonia canadensis

- "Collinsonia is a remedy for venous stasis and for irritation of the mucosa. Chiefly it meets one prime condition and the many disorders dependent thereon. This is atony of the venous circulation, whether due to relaxation of the blood vessels or to lack of tone in the venous side of the heart."
- "Collinsonia acts upon the tissues and valves of the heart, relieving irritation, increasing its power to act, and regulating its contractions. Mitral regurgitation and the distressing cough of heart disease, are greatly benefited by its administration"
- "The keynote is a sense of weight and constriction in the part affected."



The Eclectic Materia Medica, Pharmacology and Therapeutics, 1922, by Harvey Wickes Felter, M.D.

Hawthorn

Cretaegus spp.

Family: Rosaceae

- Increases the pumping force of the heart muscle to boost cardiac
- output causes direct dilation of smooth causes direct dilation of smooth muscle in coronary vessels thereby lowering their resistance and increasing blood flow vitamin C content helps to strengthen tiny capillaries
- anthocyanidins and proanthocyanidins in the herb help to stabilize collagen
- Good source of rutin and OPC's



Gotu kola

Centella asiatica

Preliminary double-blind, placebo-controlled studies indicate that gotu kola extract provides improvement in major venous insufficiency symptoms, reducing swelling, pain, fatigue, sensation of heaviness, and fluid leakage from the veins.

- · Improved integrity of connective tissue in
- · Enhances connective tissue structure and improves blood flow through affected
- Increases the integrity of the perivascular sheath, the connective tissue structure that

Family: Apiaceae



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Herbal Actions- review

- · Vascular tonics- horsechestnut, berries, butcher's broom, centella, hawthorn, violets, buckwheat
- · Circulatory Stimulants- prickly ash, rosemary, ginkgo biloba, ginger, cayenne
- · Astringents- witch hazel, yarrow, cinnamon
- · Vulneraries- centella, comfrey, calendula
- · Antioxidants- foods of color, pomegranate, berries, green tea, turmeric, paprika
- · Antifibrinolytic- garlic, ginger, cayenne, onions, turmeric, bromelaine

Sample Protocol

- · 1/2 cup berries a day
- · 1 cup pure dark juice daily
- · Liberal spices- fire cider daily
- · Violet vinegar- spoonful per day · Green tea, turmeric, paprika, garlic daily
- · Topical witchhazel, pansy, violet, yarrow, horsechestnut preps.
- (I usually add a circulatory stimulant such as rosemary) · Horsechestnut or Butcher's broom as needed in supplement
- For acute topical inflammation as in hemorrhoids- topical slippery elm, potato, plantain, or others with a "drawing"
- reputation. Followed by astringents yarrow, witchhazel to seal the vessels.



The American **Herbalists Guild:** An Association of **Herbal Practitioners**

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- Please type your question in the box provided
- Please keep questions in line with the webinar
- We will try to answer as many questions as we

