

Effective, Low Cost Compression Option

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25 million Americans Have Venous Insufficiency

Usually caused by venous problem in lower leg

- Sitting/standing for lengthy periods
- Over weight
- Inherited

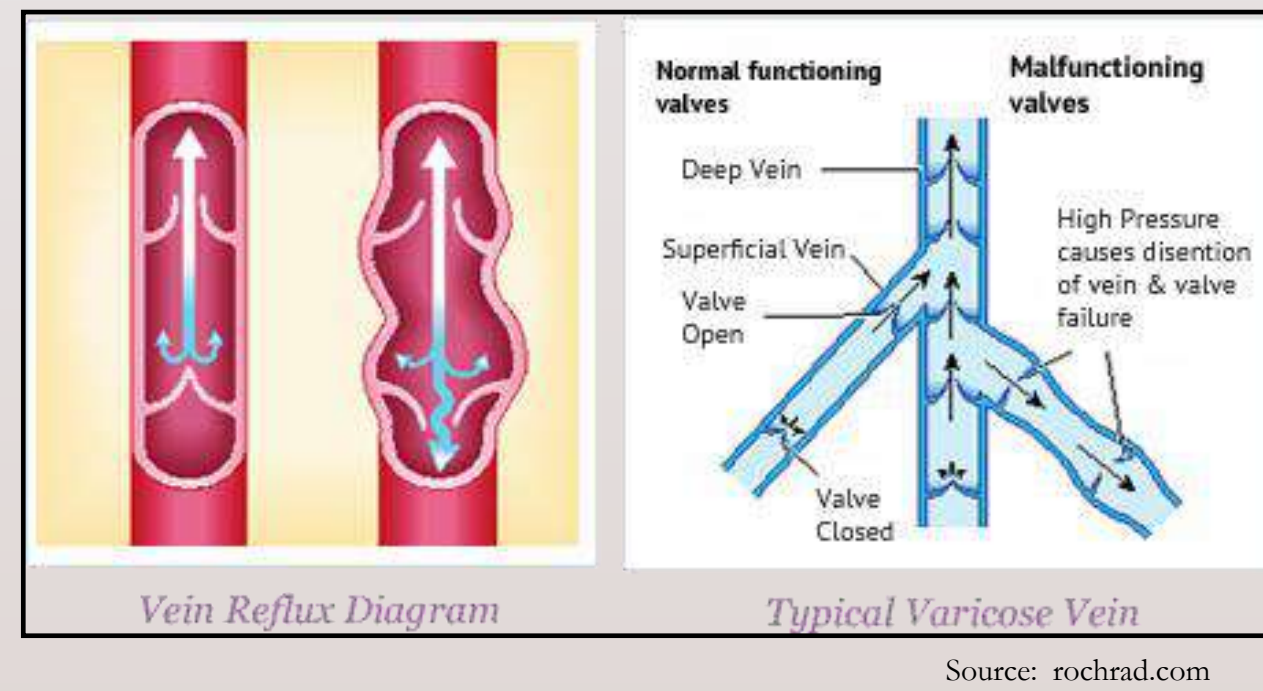


Chronic ankle swelling
Source: whitedoom.com

500,000 Americans have Venous Stasis Ulcers

Chronic ankle swelling develops
Blood/fluids collect at ankle

- Progresses to tissue changes
- Blood/lymph fluid build up at ankles
 - 1 way Valves are stretched out
 - Blood/fluids trickle down and pool
- Open sores may develop due to high venous pressures, especially at the inner ankle



Vein Reflux Diagram
Typical Varicose Vein
Source: rxchrad.com

Gold Standard Treatment: Compression Hose



Source: articlevolcano.com

Serious Compliance Problem

Too hard to get on
Too uncomfortable
They don't help
Too tight
Too expensive
Too hard to take off

People Don't Wear Them

Of those advised to use compression hose, only
37% wear them, 21% on a daily basis

Source: Ann. Vasc. Surg. 2007 Sushadri Raju MD

EdemaWear: Longitudinal Compression Option

Inexpensive, Comfortable Alternative

- "The 'cornrow' furrows created by the yarn are compressive enough to be physiologically useful."
- Compression is delivered by fuzzy longitudinal yarns that go up and down the limb
- Between the longitudinal yarns, *Lycra Spandex* elastic knits a tubular mesh fabric



Case Study #1

83 year old male

PMH: Atrial fibrillation, pacemaker,
bilateral pulmonary embolism s/p TURP

- Owns compression hose but hadn't been wearing
- Open venous ulcer Right leg
- Small skin tear from donning compression hose
- Knee high size small EdemaWear sock over basic dressing



Venous ulceration plus skin tear
while donning compression hose
Used with permission

Wore EdemaWear 24/7

- "Comfortable"
- Wound fully healed in less than 3 weeks
- Edema controlled
- Prefers Edemawear over compression stockings



Fully healed in less than 3 weeks

Case Study #2



Wet ulceration, high risk for cellulitis/further skin
breakdown
used with permission

39 year old male

PMH: Obesity, Cellulitis *left* leg
Severe lymphedema *left* leg

Slip in shower stall results in wound on *right* leg
Needed easy compression option for *right* leg



Too short and inadequate density

Had been issued inadequate compression hose



Wound closed while emphasis on other leg

Used EdemaWear as active layer over absorbent dressing
Elastic Stockinet to cover for further support

Fully closed in less than 8 weeks with no
other intervention

Case Study #3: A Work in Progress

74 year old female

PMH: Left breast cancer with reoccurrence
Left upper extremity lymphedema
Repeat left axillary node dissection
Chest wall/arm cellulitis
Multiple drug allergies/hypersensitivities

Treatment

Outpatient lymphedema therapy
Variety of elastic arm sleeves
Non-elastic (Velcro) night garment
Home sequential compression device

EdemaWear Trial

Currently using size small EdemaWear
Edemawear plus compression sleeve trial
Had very active weekend (moved books, painted bookcases, etc)
Typical response=Flare up of lymphedema
With EdemaWear= No flare up



Multiple attempts to maintain reduced girth failed
Used with permission



Despite overuse, arm did not flare up
when using EdemaWear

EdemaWear Compression Dynamics, LLC: Encouraging Alternative for Edema and Lymphedema Management



Satisfied Customer
Used with permission

Advantages

- Easy to put on, take off
- Comfortable, cool, washable
- Sizing up to 46" circumference
- Effective aid for wound healing
- 4 to 6 month life span worn 24/7
- Most prefer it to compression hose
- Prices start at \$13 a pair

EdemaWear, with its unique "Longitudinal Yarn Compression"™ (LYC) was developed at the University of Nebraska by vascular surgeons.

"Traditional compression garments act as *lymphatic tourniquets*. LYC represents an enormous physiologic advantage for users." Compression Dynamics EdemaWear Brochure (italics added)



"Our Physician researchers hypothesize the areas of non compressed skin between the longitudinal yarns act as a zero pressure zone, which enhances lymphatic drainage from the skin furrows compressed under the yarn."
Compression Dynamics EdemaWear brochure

Acknowledgements

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