



Lympha Press® and the Wound Care Market

Dear Friends,

Most of us are focused on how we can use **Lympha Press®** for lymphedema. However, Lympha Press® products can also be used to treat venous diseases: **chronic venous insufficiency** and **chronic venous stasis ulcers**.

Chronic venous insufficiency (CVI) affects many adults age 50 and above. CVI is most often caused by damage to the one-way valves in the veins in the legs. This damage allows blood to flow backwards, increasing the pressure in the veins. The higher pressure in the small vein capillaries causes fluid to leak out of them, and edema forms in the tissue space. **The edema slows oxygen and nutrient delivery to the tissues, and the leaking or broken blood vessels cause inflammation.** Skin changes occur, including hardening of the skin, red-brown stains, and stasis dermatitis (itchy, flaky skin). Wounds open up in the skin, and due to the poor oxygenation, inflammation and edema, they do not heal. These wounds are called **chronic venous stasis ulcers**.



Pigmentation, skin changes and swelling from CVI



Venous stasis ulcer

Venous stasis ulcers are the most common type of ulcers on the leg and can cause significant health problems for the patient, including repeat cellulitis infections.

Following are some symptoms of CVI:

- Persistent, chronic swelling of the legs, particularly lower legs and ankles
- Aching, tired legs
- Abnormal shape of the leg ("inverted champagne bottle")
- Red-brown staining of the skin (hemosiderin staining)
- Itchy, flaky skin (stasis dermatitis)
- Hardening of the skin (lipodermatosclerosis)
- Chronic wounds - venous stasis ulcers.

Pneumatic compression treats CVI by reducing the edema, thereby increasing oxygenation and reducing the damage caused by inflammation.

- Pneumatic compression increases the venous blood flow rate and reduces the leakage of fluid into the tissue space.
- Pneumatic compression increases lymph uptake and flow in functional lymphatic vessels, to absorb edema fluid faster.
- In cases where inflammation has damaged the local lymphatic vessels, pneumatic compression moves edema toward functioning lymphatic vessels, for absorption.



Venous stasis ulcer before and after treatment with Lympha Press®, bandaging and wound care.

Pneumatic compression also speeds the rate of healing for venous stasis ulcers, by

- Increasing oxygenation to the wound bed. Increased oxygenation helps the wound to heal.
- Assisting wound closure by reducing the swelling that keeps the wound edges apart.
- Increasing venous return during the daily treatment sessions.

Since there is no “cure” for chronic venous insufficiency, it is important to continue self-treatment at home after the edema is controlled. Venous ulcers often recur if treatment is not continued.

Phlebo Press Model 701, and Lympha Press PCD-51 are designed to treat CVI edema. They provide accurate pressure and automatic or user-selected pause, to ensure complete deflation for vascular refill in between compression waves.

Our garments are also designed for treating CVI. We have shorter sleeves available (2-50, 3-65). We are also planning on introducing Personal Single Patient Use sleeves in size 2-50 (up to the knee), at a new lower price. This can be a lower- cost alternative for customers who would like garments for short term treatments.

We recommend Lympha Press® products to vascular physicians and wound care clinics for their CVI patients who:

- Are not able to comply with compression stockings.
- Have not received sufficient benefit from stockings or bandaging.
- Have developed open wounds (ulcers).

I am attaching some helpful documents:

- A short list of clinical studies on pneumatic compression for CVI/ulcers.
- A case report with Phlebo Press Model 701 .
- Treatment protocol for CVI and venous stasis ulcers.

Please contact us and we'll be glad to explore this subject with you in detail.

Kind regards,
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