Controlling Wound Edema with Fuzzy Yarn Focused Compression in Direct Contact with Granulation Tissue Speeds Healing

**Outcome**

- **Cycle does not degrade spandex tensile strength.**
- Laundering the textile is cost effective for outpatient use.
- We encourage patients to reuse the soiled stockinet without maceration of surrounding skin.

**Problems**

- Stasis Dermatitis and Ulcer x 20 years
- Ulcer x 20 years
- Bilateral Longitudinal Yarn Compression

**Rx**

- Nanoparticle polymer powder
- LYC dressings 2x week
- Poor response to four layer dressing
- To control wound edema LYC stockinet is placed directly on wound surface

**Outcome**

- Nanoparticle polymer powder gel controls ulcer pain. Patient compliance is high.
- Ulcers heal with two wound center visits over 32 days
- Yarn Focused Compression directly on wound surface results in healing

**Problems**

- Cell Skin Slough
- Hemolysis
- Diabetes
- Coronary Disease
- Saphenous Vein Harvest Incision

**Rx**

- Compare this photo to the above photo. Wound has been treated with nanoparticle polymer powder gel before and after placement of longitudinal yarn stockinet. The white eschar appears to effectively control wound pain.
- The tradition of using gauze on the wound is hard to break. The goal is "cornrow" surface edema is treatable (1). Landon observed that LYC is safe in ischemia (2). Can you please provide more details on the specific benefits and mechanisms of action for Longitudinal Yarn Compression?

**Outcome**

- Rapid control of stasis dermatitis and skin edema
- Rapid epithelialization of wound surface

**Problems**

- Chronic Stasis dermatitis
- Warm weather triggers bilateral calf stasis ulcers
- Peripheral Vascular disease

**Rx**

- Nanoparticle polymer powder gel
- Yarn Focused Compression in direct contact with wound granulation tissue
- Stockinet will be laundered and reused.
- Stretching the spandex allows removing the stockinet is not painful.
-Rx Day #5. Nanoparticle polymer powder gel prior to application of powder, saline spray is used to "fix" the powder into a gel.
- For comparison, see above photo. Wound water, a decision to use Yarn Focused Compression as an alternative to a classic compression bandage. Vascular surgeon suggested this Yarn Focused Compression in direct contact with wound granulation tissue speeds healing. We posit that direct contact delivery to the metabolically active cells in a manner increasing oxygen delivery to the metabolically active healing interface.

**Outcome**

- Rapid control of stasis dermatitis and skin edema
- Rapid epithelialization of wound surface

**Problems**

- Stasis Dermatitis, recurrent ulcers x 20 years
- Stasis Dermatitis and Ulcer x 20 years
- Ulcer x 20 years
- Bilateral Longitudinal Yarn Compression

**Rx**

- Nanoparticle polymer powder dressings (2 x weeks)
- Nanoparticle polymer powder gel controls ulcer pain.
- Longitudinal Yarn Compression stockinet (LYC) in direct contact with granulation tissue speeds healing
- Ulcers healing, at time of publication, after 17 days of Longitudinal Yarn Compression.

**Outcome**

- Nanoparticle polymer powder gel controls ulcer pain.
- Longitudinal Yarn Compression stockinet (LYC) in direct contact with granulation tissue speeds healing
- Ulcers healing, at time of publication, after 17 days of Longitudinal Yarn Compression.