**Problem**: Shear injury resulting in a hematoma
- Anticoagulated
- Mild peripheral arterial disease
- Senile skin
- Mild venous insufficiency

**Problem**: Blunt prefetal shear trauma in a 70 y/o female
- Comorbid venous insufficiency
- Comorbid senile skin

**Problem**: Skin shear injury on 3 limbs
- Senile skin
- COPD on Prednisone
- CHF with edema
- Anticoagulated

**Treatment**
- Aspiration of bloody fluid
- Fuzzy wale lite elastic compression stockinet* + cast padding + crepe wrapping

**Treatment**
- Soft debridement
- Fuzzy wale elastic compression

**Treatment**
- Fuzzy wale elastic compression stockinet to prevent shear injury recurrence

**Outcome**
- Healing in 49 days

**Outcome**
- 50% healing of posterior thigh wound with fuzzy wale elastic compression at time of death, day #16
- This patient, with wheelchair shear/pressure injury, prompted us to use fuzzy wale stockinet to protect skin in contact with wheelchairs

**Outcome**
- Two clinic visits referred to home care
- 3 shear injuries healed with visiting nurse association
- Fuzzy wale compression stockinet to prevent shear injury recurrence

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**Clinical Problem**
- A 70 y/o female, 5'5", 150 lbs, 70 y/o female, 5'5", 150 lbs, with chronic skin tears on 3 limbs, suffering from COPD on Prednisone, CHF with edema, and anticoagulated

**Control of Edema is the Probable Mechanism**

**Current Approach**
- Skin tears, due to shear, in institutionalized octogenarians with comorbid conditions
- Management protocols calling for expensive skin protection textiles
- Formal research indicated

**Fuzzy Wale Longitudinal Elastic Compression Protocols**
- May improve skin flaps after shear injury and to stabilize and compress split thickness skin grafts and large wound areas

**References**
- 3. EdemaWear® and EdemaWear® LITE™ Stockinets, Compression Dynamics LLC, Nebraska Medical Center, Bellevue, NE

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**Day #0. Left forearm shear injury is several months old. Day #0. Right forearm shear injury is several months old.**

**Treatment**
- Soft debridement
- Fuzzy wale elastic compression

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**Day #10. Post Trauma Day #10. Observe how effective the soft debridement technique can be. Soft debridement owes its success in part to pretreatment to soften the eschar via reactive oxygen species with sodium hypochlorite, Dakin’s solution** for 10 minutes. A dry terrycloth, seen in the photograph with blood and exudate, was used with a sodium hypochlorite solution as we did in this case, or hypochlorous acid (HOCl). Reactive oxygen species breaks down bonds between the amino acids in protein to make debridement easier.

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**Day #26. The white stockinet with orange stripe is LITE size medium fuzzy wale elastic compression stockinet*, ***.

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**Outcome**
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**Conclusion**
- Experience with elastic compression protocols for inpatient, rehab and chronic care patients appear promising and inexpensive to prevent shear injury in at risk senile skin. Photographs document:

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**Day #7. Patient discharged from wound clinic to home care from visiting nurse association. All wounds healed. Patient now wears fuzzy wale compression textile on 4 limbs and has had no skin shear injury recurrences.**

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**Day #42. Patient showers daily, washes the wound and replaces stockinet, laundering her stockinets as needed. Observe**

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**Day #14. New problems are seen in this photo, edema of the right ankle due to CHF and arterial insufficiency, and three cornrow furrows resulting from compression with fuzzy wale compression stockinet in the skin and granulation tissue of the healing wound. Observe how healthy the surrounding skin appears as stasis dermatitis resolves under fuzzy wale elastic compression therapy. Patient was discharged from clinic with a supply of stockinet as a skin shear protection garment.**

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**Day #0. Post Trauma Day #10. Patient was wearing shorts and bumped into a high steel rail resting on a wall. Observe necrotic blue, dusky skin edges, and mucus slime over the poorly granulation surface.**

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**Day #0. Left forearm shear injury is several months old. Day #0. Right forearm shear injury is several months old.**

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**Day #0. Post Trauma Day #10. Observe how effective the soft debridement technique can be. Soft debridement owes its success in part to pretreatment to soften the eschar via reactive oxygen species with sodium hypochlorite, Dakin’s solution** for 10 minutes. A dry terrycloth, seen in the photograph with blood and exudate, was used with a sodium hypochlorite solution as we did in this case, or hypochlorous acid (HOCl). Reactive oxygen species breaks down bonds between the amino acids in protein to make debridement easier.

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