Novel Four Layer Dressing Enhances Leg Ulcer Healing: Longitudinal Yarn Compression in Direct Contact with Wound Surface Delivers Effective Elastic Compression

**Ischemic R Foot Ulcers x 18 Months**

- **Problems**
  - Pain
  - L.BKA
  - Paraplegia with knee contracture
  - Tobacco use

- **Rx**
  - Aggressive bioburden control with acoustic debridement and hypochlorous acid irrigation
  - Topical HEMA powder
  - Bioengineered human skin substitute

- **Outcome**
  - Ulcers heal 13 weeks after Bioengineered skin substitute and LYC compression

**L Ankle Ulcers x 11 Months**

- **Problems**
  - Wound comorbidities: AODM
  - Pain
  - Refractory to weekly wound clinic treatment

- **Rx**
  - Aggressive bioburden control with acoustic debridement and hypochlorous acid irrigation
  - Topical HEMA powder dressing
  - LYC four layer dressings
  - Bioengineered human skin substitute

- **Outcome**
  - Ulcers heal 5 weeks after Bioengineered skin substitute and LYC Four Layer Dressing

**L Calf Venous Leg Ulcers**

- **Problems**
  - Wound comorbidities: AODM
  - Pain
  - Poorly controlled AODM

- **Rx**
  - Aggressive bioburden control with acoustic debridement and hypochlorous acid irrigation
  - Topical HEMA powder dressing
  - Bioengineered human skin substitute
  - LYC four layer dressings

- **Outcome**
  - Ulcers heal 11 weeks after Bioengineered skin substitute and LYC Four Layer Dressing

**Venous R Leg Ulcers**

- **Problems**
  - Wound comorbidities: AODM
  - Pain
  - COPD on prednisone
  - Arterial occlusive disease
  - Pain precluded adequate debridement for several months

- **Rx**
  - Aggressive bioburden control with acoustic debridement and hypochlorous acid irrigation
  - Topical HEMA powder dressing
  - Bioengineered human skin substitute
  - LYC four layer dressings

- **Outcome**
  - Ulcers heal 13 weeks after Bioengineered skin substitute and LYC Four Layer Dressing