Aggressive Mechanical Bioburden Control Improves Wound Healing: Liberal 22.5 KHz Ultrasonic Debridement Reduces Bioburden

Refractory Ischemic Ulcers

Problems:
- Pressure ulcers
- Venous ulcers
- Diabetic ulcers
- Enterobacter cloacae
- Chronic wounds
- Osteomyelitis

Procedures:
- 22.5 kHz ultrasonic debridement
- Bioengineered skin substitute grafting
- Longitudinal Yarn Compression

Outcome:
- Bioengineered skin substitute grafting
- Longitudinal Yarn Compression
- Healing

Idiopathic Diabetic Ulcers

Problems:
- Venous ulcers
- Diabetic ulcers
- Enterobacter cloacae
- Chronic wounds
- Osteomyelitis

Procedures:
- 22.5 kHz ultrasonic debridement
- Bioengineered skin substitute grafting
- Longitudinal Yarn Compression

Outcome:
- Bioengineered skin substitute grafting
- Longitudinal Yarn Compression
- Healing

Recurrent Venous Stasis Ulcers

Problems:
- Venous ulcers
- Diabetic ulcers
- Enterobacter cloacae
- Chronic wounds
- Osteomyelitis

Procedures:
- 22.5 kHz ultrasonic debridement
- Bioengineered skin substitute grafting
- Longitudinal Yarn Compression

Outcome:
- Bioengineered skin substitute grafting
- Longitudinal Yarn Compression
- Healing

Stasis Ulcers with Ischemia on Steroids

Problems:
- Venous ulcers
- Diabetic ulcers
- Enterobacter cloacae
- Chronic wounds
- Osteomyelitis

Procedures:
- 22.5 kHz ultrasonic debridement
- Bioengineered skin substitute grafting
- Longitudinal Yarn Compression

Outcome:
- Bioengineered skin substitute grafting
- Longitudinal Yarn Compression
- Healing

Stasis Ulcer, CHF and Senile Skin

Problems:
- Venous ulcers
- Diabetic ulcers
- Enterobacter cloacae
- Chronic wounds
- Osteomyelitis

Procedures:
- 22.5 kHz ultrasonic debridement
- Bioengineered skin substitute grafting
- Longitudinal Yarn Compression

Outcome:
- Bioengineered skin substitute grafting
- Longitudinal Yarn Compression
- Healing