

Use of a Novel, Variable Intermittent Negative Pressure Wound Therapy System to Treat a Long Standing (19 years) Right Leg Wound with Osteomyelitis.

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51 year-old male self-referred for evaluation of a non-healing wound of the right postero-lateral ankle. In 1978, he was in a motor vehicle accident causing a complicated open wound of the right leg treated with skin grafting which healed. 18 years later (1996) he suffered a trauma to the same area resulting in an open wound. Multiple dressings were used over the intervening 19-year period including topical antibiotics, topical steroids, multiple skin grafts and leaving it open to the air. No further evaluation of the wound was performed and he reported the wound had been increasing in size over the last several months. Leg swelling was self treated with white stretch socks. The initial wound size was 6.3 x 1.9 x .1.3 as pictured.

MRI showed Osteomyelitis in the area and surgical excision of involved bone and the soft tissues was performed on October 1, 2014. Bone cultures were obtained at surgery but were not processed due to clerical error and so presumptive antibiotics were initiated orally for 6 weeks. The Genadyne XLR8 System using the Variable Intermittent mode and foam dressings at 100mmHg x 5 minutes and 20mmHg x 10 minutes with dressing changes 3x/week were initiated. The wound progressed well with ongoing decrease in all parameters. After 6 weeks of therapy, the NPWT was discontinued as the wound had 100% granulation tissue base and the patient needed to return to work. Simple dressings to promote wound moisture were used and changed twice a week.

6.3 x 1.9 x 1.3



September 4, 2014

2 weeks post-op



October 17 2014

4.2 x 1.8 x .6



November 17, 2014



December 4, 2014