✚ Case study

Smith+Nephew

RENASYS◊ EDGE System utilized to treat non-healing pressure injury wound with history of infection and osteomyelitis in the lower limb

Presentation

A 43-year-old male with multiple comorbidities, including limited mobility, developed an unstageable pressure injury (PI) on the right heel. Wound was non-healing with a history of infection, unsuccessful antibiotic treatment, and osteomyelitis development. Treatment was delivered at patient's place of residence, a long-term care facility.

Treatment

- Wound care specialist were involved 4 weeks post-PI development, wound documented as non-healing with presence of infection
- Initial treatment included regular sharp debridement, antibiotics and alternative traditional negative pressure wound therapy (tNPWT)
- Patient developed several infections, leading to hospitalization due to osteomyelitis, and subsequent long-term antibiotic treatment
- Decision was made by HCPs to switch treatment to RENASYS EDGE tNPWT with foam filler
  - Continuous tNPWT treatment, dressing changed Tuesdays and Fridays
- Following clinical improvement, including reduction in wound size and exudate levels, treatment was stepped down to PICO◊ single use negative pressure wound therapy (sNPWT)

Figure 1. RENASYS EDGE in situ on patient

Outcomes

Patient comfort and **quality of life maintained** during therapy with RENASYS EDGE tNPWT

HCPs found RENASYS EDGE tNPWT **user-friendly**

Wound **progressed towards healing**, allowing step down to sNPWT when clinically appropriate

Assessment

Day 0 Prior to initiating treatment with RENASYS◊ EDGE tNPWT

Wound bed 95% granulation tissue and 5% adipose tissue.

LWD:
7.0 x 5.2 x 1.4cm

Figure 2

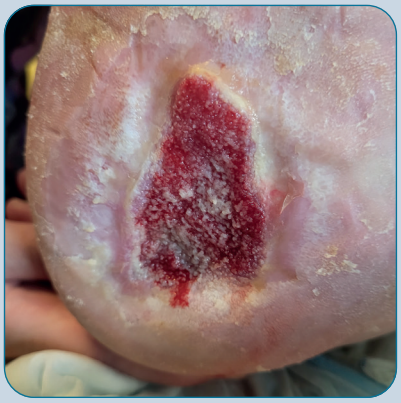
~3 weeks after initiating treatment with RENASYS EDGE tNPWT

Wound bed 100% granulation tissue.

LWD:
6.0 x 3.5 x 1.0cm

Figure 3

~8 weeks after initiating treatment with RENASYS EDGE tNPWT

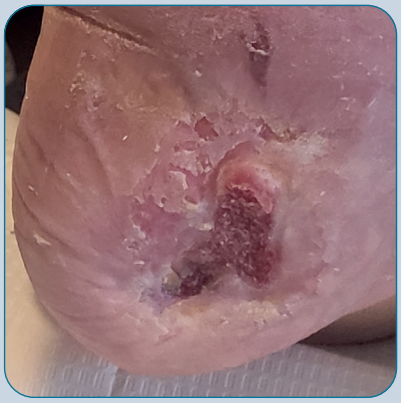


Healthy granulation tissue with increased epithelialization evident.

LWD:
4.8 x 3.2 x 0.5cm

Figure 4

~10 weeks after initiating treatment with RENASYS EDGE tNPWT



Substantial contraction and reduction in size, wound-bed clean and granulating.

Treatment with RENASYS EDGE System stopped and PICO◊ sNPWT initiated.

Figure 5

Summary

RENASYS EDGE System utilized in the treatment of a non-healing PI, achieving successful healing outcomes in line with pre-specified treatment goals and maintenance to the patients quality of life.

Acknowledgements: Images used with permission from Patricia L Kearney, CEO & Administrator, Tidal View Manor, Nova Scotia, Canada.

This real-world data was collected and provided by Global Clinical Strategy.

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