+ Case study

Smith+Nephew

RENASYS◊ WOUND+ Dressing Kit with AIRLOCK◊ Technology successfully utilized to manage an open traumatic thigh wound caused by a dog bite

Presentation



A 75-year-old female presented following a dog attack with trauma to the right leg resulting in an open wound on the medial thigh and posterior distal leg. Upon initial presentation, the wound was surgically debrided and treated with traditional negative pressure (tNPWT) for 14 days prior to treatment with RENASYS WOUND+ Dressing as an in-patient. The patient had no wound-related comorbidities.

Treatment

- The patient was initially treated with a Traditional Negative Pressure Wound Therapy (tNPWT) acrylic drape after surgical debridement for 14 days
- The treatment goal for this open wound was promotion of granulation tissue in preparation for a skin graft
- Decision was made to switch treatment to RENASYS EDGE tNPWT with RENASYS WOUND+ Dressing
  - Continuous tNPWT at -80 mmHg
  - RENASYS foam wound filler
  - Dressing changes occurred every 2–3 days
  - Wound bed was surgically debrided during dressing changes
- Exudate levels remained low throughout tNPWT therapy
- Following improvement of the wound depth and exudate levels, treatment was stepped down to PICO◊ Single Use Negative Pressure Therapy (sNPWT) after 2 weeks

Prior to surgical debridement and initiation of treatment with RENASYS WOUND+ Dressing



LWD:
12 x 10 x 1cm

Figure 1

Outcomes

HCPs noted:

"A reduction in edema in the leg helped reduce the wound size"

"The peri-wound skin looked great"

"The ability to cover the closed incision next to the open wound with the same dressing without bridging or additional dressings was really convenient"

36% wound reduction at 2 weeks after initiating treatment with RENASYS WOUND+ Dressing

Treatment with RENASYS WOUND+ Dressing resulted in a progressively smaller and granulating wound bed

Assessment

0 weeks after initiating treatment with RENASYS◊ WOUND+ Dressing post debridement



Following debridement both the open and incisional wounds were covered with a single RENASYS WOUND+ Dressing.

LWD:
13 x 12 x 1cm

Figure 2

1 week after initiating treatment with RENASYS◊ WOUND+ Dressing



Formation of granulation tissue was observed ≤3 days. Progressive 29.5% reduction in wound dimensions with observed reduction in edema

LWD:
11 x 10 x 1cm

Figure 3

2 weeks after initiating treatment with RENASYS◊ WOUND+ Dressing

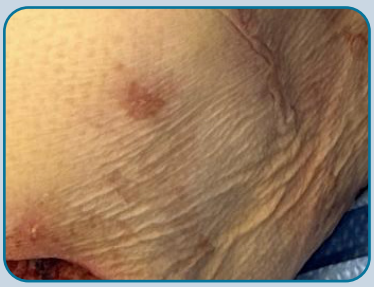


36% reduction in wound area with increased granulation tissue. Treatment was transitioned to PICO◊sNPWT from this

LWD:
10 x 10 x 1cm

Figure 4

1 month after initiating treatment with RENASYS◊ WOUND+ Dressing



Complete closed incision with observed reduction in edema to the surrounding tissue.

Figure 5

Summary

RENASYS WOUND+ Dressing was successfully utilized during the initial stages of wound healing for an open traumatic wound and closed incision wound following a dog bite. Treatment goals including promotion of granulation tissue and wound size reduction were achieved before transitioning from RENASYS WOUND+ Dressing to PICO sNPWT prior to eventual skin grafting.

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