

RENASYS[®] WOUND+ Dressing Kit with AIRLOCK[®] Technology utilized to manage surgical wound dehiscence after orthopedic trauma

Presentation

A ~50-year-old male patient presented with an open traumatic wound on the lower leg. The patient had experienced a tibial crush injury and presented 4–6 weeks later following failure of a skin graft, performed after a fasciotomy and orthopedic fixation. On examination, the wound showed partial loss of the graft and contained non-viable muscle tissue.



Treatment

- The patient was initially treated following a crush injury with a fasciotomy and an external fixator for a tibial plateau fracture
 - 4 days post injury, open reduction and internal fixation of the tibial plateau fracture was performed along with a skin graft
 - 30 days post injury the patient presented with a partially failed skin graft and non-viable muscle tissue
- The treatment goal for this patient was to prepare the wound bed for a potential second skin grafting procedure
- Traditional Negative Pressure Wound Therapy (tNPWT) was applied to the open wound, utilizing RENASYS EDGE tNPWT with RENASYS WOUND+ Dressing
 - RENASYS WOUND+ Dressing with a foam wound filler was applied
 - Continuous tNPWT administered at -80mmHg
 - Dressing changes occurred every 2–3 days
 - Treatment transitioned to PICO[®] Single Use Negative Pressure Wound Therapy (sNPWT) after 9 days and continued in a post-acute facility

Pre- and post-debridement, prior to initiating treatment with RENASYS WOUND+ Dressing



LWD:
12 x 5 x 2cm

Figure 1



Outcomes



"There were lots of skin islands from a previous skin graft. It was nice to leave those protected by the silicone wound contact layer"
"The wound edges look fantastic"



27% reduction in wound size at Day 9 after initiating treatment with RENASYS WOUND+ Dressing



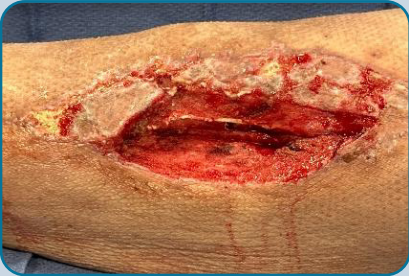
The granulating wound bed supported the transition to PICO sNPWT for continued outpatient therapy

Assessment

2

days

after initiating treatment with RENASYS[®] WOUND+ Dressing



Skin islands from the previous skin graft were protected by the silicone wound contact layer of RENASYS WOUND+ Dressing.

LWD: 11 x 4.5 x 2cm

Figure 2

6

days

after initiating treatment with RENASYS WOUND+ Dressing Kit



Wound bed has presence of granulation tissue which started at day 3. Improved appearance of wound edges now observed.

LWD: 11 x 4 x 2cm

Figure 3

9

days

after initiating treatment with RENASYS WOUND+ Dressing Kit



Initial edema of the wound subsided and treatment transitioned to PICO[®]sNPWT after this timepoint in a post-acute treatment facility.

LWD: 11 x 4 x 2cm

Figure 4

Summary

RENASYS WOUND+ Dressing was utilized in the treatment of an open fasciotomy wound that allowed for successful transition to treatment with PICO sNPWT. The silicone wound contact layer of RENASYS WOUND+ Dressing helped protect skin islands from a previous skin graft and increase granulation tissue, removing the need for secondary skin grafting.

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