

# Utilizing Different Dressing Techniques with Versatile Negative Pressure Wound Therapy (VNPWT\*) on Four Complicated Wound Patients.

Anne Blevins BSN, RN, WCC, CWOCN, Drake Center, Cincinnati, Ohio  
Anne.Blevins@healthall.com

## Purpose:

Demonstrate the versatility of VNPWT\* utilizing multiple techniques of dressing applications.

## Problem:

Patient A had trauma wound to groin with tunneling of 31.5cm.  
Patient B had traumatic torso evisceration with enterocutaneous fistula (EF).  
Patient C had necrotizing fasciitis surgical wound with tunneling and undermining.  
Patient D had surgical site with EF and undermining following a total exenteration.

## Past Management:

Patient A foam NPWT± with foam stuck in blind tunnel.  
Patient B dry gauze and wall suction changed every day with complication of leaking dressing.  
Patient C foam NPWT± with white foam±± in base of wound.  
Patient D foam NPWT± with leaking dressing.

## Current Management:

Patient A gauze with drain† and VNPWT\*.  
Patient B pouching system+, drain† and VNPWT\*.  
Patient C foam\*\* was applied over lapping all edges of undermining wound edges. Grooved drain†† placed in tunneled area attached to VNPWT\*.  
Patient D gauze, standard drain‡, and VNPWT\*.

\*Smith & Nephew EZCARE.  
±KCI Wound VAC  
±±KCI Versa Foam  
† Smith & Nephew Wooding Scott Drain  
+ Coloplast Fistula and Wound Management Device  
\*\*Smith & Nephew Foam Dressing Kit  
††Smith & Nephew Channel Drain  
‡Smith & Nephew Flat Drain

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## Clinical Case Series



## Results:

Patient A tunneling decreased to 6 cm resulting in wound volume reduction of 81%. The drain† enabled staff to irrigate wound with medication as needed, decreasing frequency of dressing changes and decreasing patient pain.

Patient B had one week wear time and wound volume reduction of 99%. Patient was able to participate with daily physical therapy without disruption due to frequent dressing changes.

Patient C tunnel decreased from 13 cm to 7 cm resulting in 46.2% wound volume reduction in 9 days.

Patient D no longer had undermining with 78% wound volume reduction.

## Conclusion:

VNPWT\* provides positive wound outcomes and versatility utilizing many dressing options.