# A Case Presentation Using the V.A.C. VERAFLO CLEANSE CHOICE<sup>™</sup> Dressing

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NOTE: As with any case study, the results and outcomes should not be interpreted as a guarantee or warranty of similar results. Individual results may vary depending on the patient's circumstances and condition.

### BACKGROUND

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The case presented here is that of an 80-year-old female found down for an unknown length of time. She was disoriented and had no recollection of any precipitating incident at the time of presentation. The patient was found by neighbors and was transferred and admitted to our hospital's trauma service with blisters on her right leg, rhabdomyolysis and compartment syndrome of the right leg. Her past medical history included hypertension, demand ischemia and depression. She was also diagnosed with a T11 end plate fracture and unspecified encephalopathy.

#### TREATMENT

Initially, the patient was taken to the operating room for fasciotomy of the right leq. Necrotic tissue was suspected, but not clearly identified during this procedure. The wounds were dressed in wet-to-dry dressings. Eight days later the necrotic muscle began to demarcate, and she was taken back to the operating room for necrotic tissue debridement. Wet-to-dry dressings were continued. The burn service was then consulted for wound management with further debridement being performed and the application of a standard V.A.C.<sup>®</sup> Dressing (Figs. 1,2). Upon dressing change, further necrotic tissue was identified (Fig 3). Another surgical debridement was performed and the V.A.C. VERAFLO CLEANSE CHOICE™ Dressing was applied in order to facilitate further wound cleansing, antiseptic wound flushes and to stimulate rapid granulation tissue growth. At this point there was significant tissue loss in the lower leg and cavities that reached down to the tibia and fibula (Fig 4). The V.A.C. VERAFLO™ Therapy using V.A.C. ULTA<sup>™</sup> Therapy Unit was set to -125 mmHg pressure with instillation every four hours and ten-minute dwell time. In our institution, we used mafenide acetate

2.5% solution for the first six days, followed by Dakin's Solution 0.025% as the instillation fluid. The V.A.C. VERAFLO CLEANSE CHOICE™ Dressing was changed every 3 days over the following 15 days, for a total of 4 times (fig 5,6). Seventeen days after initiation of V.A.C. VERAFLO CLEANSE CHOICE™ Dressing therapy, the wound was closed with split-thickness skin graft (STSG) and healed successfully (Figs. 7-11).

After treatment and upon discharge, the patient was transferred to an assisted living facility after her wounds were closed and she has not presented back to our outpatient facility for breakdown or re-opening of her wounds, which now totals six months of follow up.





V.A.C.® Therapy removal post 2x debridement POD 3





## DISCUSSION

With our standard of care, we would have performed manual flush dressings with mafenide acetate and Dakin's Solution in order to maintain antisepsis in this wound. Granulation tissue growth would have been much slower, based on previous experience with these types of wounds and an occlusive V.A.C. dressing placement would have been initiated only after the wound was completely free of any necrotic tissue elements.

The utilization of V.A.C. VERAFLO™ Therapy and the V.A.C. VERAFLO CLEANSE CHOICE™ Dressing facilitated continuous wound cleansing and rapid granulation tissue growth which led to expedited wound closure in this complicated wound.



Figure 5: V.A.C. VERAFLO CLEANSE CHOICE<sup>®</sup> Dressing removal at third dressing change



Figure 6: Wound at third dressing change



Figure 7: Lateral wound immediately prior to STSG







Figure 9: Close up of wound immediately prior to STSG



Figure 12: Healed lateral wound post-STSG

Photos courtesy of Dr. Sigrid Blome-Eberwein