

Silver delivering Bioresorbable polymer matrix (BPMAg) – as a frequent topical dressing on highly exuding wounds

Callie Horn MD, Denise Alabi BS, Chad Saintsing, John C Lantis II MD, Department of Surgery
Division of Vascular Surgery, Mount Sinai West, New York, NY, USA

BACKGROUND

There are numerous topical dressings that are used in partial thickness highly exuding wounds. However, there are few low cost options that combine a therapeutic, a desiccant (drying) technology, and an antimicrobial. Our group has extensive experience using combination therapy to achieve these goals. Therefore, we decided to apply BPMAg to see how it behaved in these patients.

METHODS

A single arm prospective QA assessment was carried out in lower extremity wounds greater than 4 sq cm. BPMAg (Microlyte Ag[®]) was applied for 4 weeks. Some patients had the dressing applied as frequently as 3 times a week at home. While another group had the material applied weekly under compression. The secondary dressing for these highly exuding wounds was a highly absorbent dressing (Optilock[®]).

RESULTS

Thirty patients were enrolled and there was a 72% mean wound area reduction at the end of 4 weeks. However, 6 of 30 patient (20 %) did not respond significantly. Overall, patients had a reduction in pain and drainage. All (100%) of the wounds had a significant reduction in the amount of drainage. No patient required the highly absorbent dressing and the end of therapy. The only wounds that did not reduce in size were the wounds that had a significant dermal component. The median number of applications was 2 per week.



Wound before application of BPMAg



Wound after applications of BPMAg

APPLICATION



CONCLUSIONS

The BPMAg was very effective in reducing the amount of drainage in all (30/30) wounds. The wound bed prep and depth probably effected the closure rate in the 20% of wounds that did not respond significantly. This 20% which did not show area reduction all involved the dermis. The ease of use, and the ability of home care provider (including self application, or family member application) application made this dressing very attractive. The product showed highest efficacy in partial thickness wounds, such as exuding dermatitis and skin tears.