Management of a Peristomal Ulcer Using a Calcium Alginate Dressing with a Sacral-Shaped Transparent Adhesive Dressing

A Case Study

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Overview

Peristomal ulcers, regardless of etiology, present a challenging clinical situation. It is necessary to dress the wound, manage the wound exudate and develop an effective pouching system. Because exudate from the peristomal wound interferes with ostomy appliance adherence, peristomal ulcers have traditionally been managed with nonadherent pouching systems. Recent advances in wound care products have expanded the range of treatment options for peristomal ulcers which provide security, extended wear-time and cost-effectiveness.1

Calcium alginate dressings are ideal for the management of moderate-to highly-exudating wounds, absorbing up to 20 times their weight in exudate.2,3 Their high absorbency provides effective wound exudate management, requiring...
less frequent dressing changes than gauze. A secondary dressing must be used to secure alginates in place. Transparent adhesive dressings, when used as a secondary dressing, protect the wound bed from bacteria and environmental contaminants, secure the primary dressings in place, and minimize leakage of wound exudate. Transparent dressings also provide a dry surface allowing for effective adhesive adherence of the pouching system.

This case study illustrates the effectiveness of using an alginate dressing with a sacral-shaped transparent adhesive dressing for the treatment of a peristomal ulcer. The alginate dressing managed ulcer drainage for 2 to 3 days. The “curved” shape of the transparent film dressing accommodated the contours of the peristomal wound, sealed the alginate dressing in place, and provided a surface for the adherence of the ostomy appliance.

Case History
A 30-year-old male with a history of colitis presented with a non-healing peristomal ulcer. The patient had a total abdominal colectomy with end ileostomy in October 1995. The peristomal ulcer developed in March 1997. At presentation, the ulcer measured 4.6cm x 1.4cm. The ulcer etiology was unknown but it apparently developed as a result of severe chemical irritation aggravated by rubbing of the two-piece pouching system. No diagnosis of pyoderma gangrenosum was made.

After 12 weeks of treatment with various products including foam, alginate and hydrocolloid dressings there was essentially no reduction in wound size. At the end of this period, the ulcer actually increased in size having measurements of 4.5cm x 2.5cm.

Treatment Plan
Sharp debridement of the exuberant hypergranulation tissue was completed by the colorectal surgeon. Tegagen HI alginate dressing was placed on the wound bed covered by Tegaderm HP transparent dressing (#9543) (Figures 1 through 5). A one-piece drainable pouch was selected to avoid excess pressure and friction. The patient changed the dressing every 2 to 3 days. The patient returned to the clinic for re-evaluation approximately every other week.
Results

• Pre-treatment ulcer size: 4.5cm x 2.5cm  
  (Figure 6)
• Day 10 ulcer size: 3.2cm x 4.5cm  
  (Figure 7)
• Week 3 ulcer size: 3.0cm x 1.8cm
• Week 6 ulcer size: 2.5cm x 1.8cm  
  (Figure 8)

Conclusion

The combination of the two dressings and the one-piece drainable pouch was a viable alternative in the management of a peristomal ulcer. The products were found to be cost-effective by providing a two-to three-day wear-time compared to previous daily changes. The combination of the two dressings was highly effective in reducing the peristomal ulcer size by approximately two-thirds over six weeks. Their use simplified the procedure enough for the patient to become independent and to resume his regular activities.

References