

Biatain® Ag Adhesive

Case study



Treatment of a highly exuding stage III
sacral pressure ulcer with Biatain Ag Adhesive

Case study

Treatment of a highly exuding stage III sacral pressure ulcer with Biatain® Ag

Authors: Jette Kvisgaard and Bjarne Alsbjörn, Department of Plastic Surgery and Burns Unit, Rigshospitalet, Copenhagen University Hospital, Denmark

Introduction

This report describes four weeks treatment of a patient suffering from a highly exuding critically colonised sacral pressure ulcer stage III with Biatain Ag.

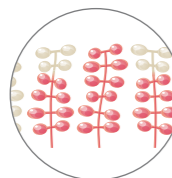
Pressure ulcers are associated with fivefold increase in mortality in elderly patients¹. The prevalence of pressure ulcers is 3%-14% among acute care hospital patients^{1,2} and up to 25% in long term healthcare facilities¹. Pressure ulcers located in the sacral area are highly at risk of bacterial contamination. Critical bacterial colonisation may worsen the wound and delay

healing considerably. The most important signs of critical colonisation (or local infection) are delayed healing, odour, abnormal or absent granulation tissue, increased exudation, and wound pain^{3,4}.

Biatain Ag is a unique 3D polyurethane foam with an antibacterial silver complex homogeneously dispersed throughout the foam. Biatain Ag combines superior absorption and antimicrobial properties in one dressing. Silver release is sustained for up to seven days in the presence of wound exudate³. Biatain Ag kills MRSA faster than other silver dressings⁴. For this study the sacral foam was used (Figure 1).

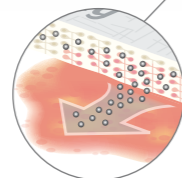
Major independent studies^{5,6} have conclusively proved that Biatain Ag is the only wound dressing that is effective on all bacteria commonly found in infected non-healing wounds.

Ensuring the fastest kill of all bacteria and superior absorption, Biatain Ag is both cost-effective and the best dressing for infected wounds⁵⁻¹⁰.



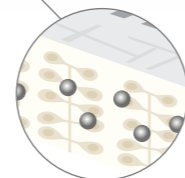
Optimal healing environment^{7,10}

Unique 3D polymer foam structure ensures superior absorption and high retention even under compression therapy.



Rapid killing of bacteria^{5,6,8}

Optimal concentration of silver ensures faster killing of bacteria such as MRSA, VRE, ESBL and Pseudomonas.



Designed to prevent wound infection⁵⁻¹⁰

Our patented silver profile provides you with a sustained release of silver during the entire wear time (up to 7 days).

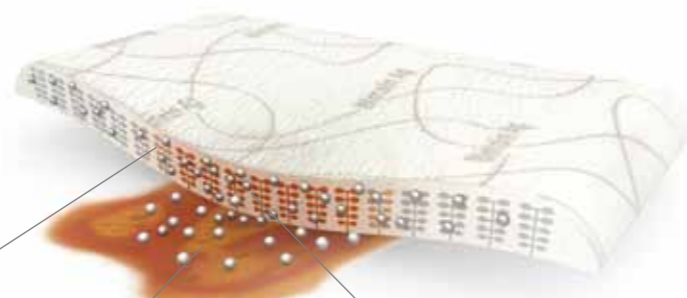


Figure 1. Biatain Ag sacral foam dressing



Figure 2. The ulcer at the start of treatment.



Figure 3. The ulcer after one week of treatment.



Figure 4. The ulcer after four weeks of treatment.

Wound Progress

Already after one week the wound bed was considerably cleaner and the odour was eliminated (Figure 3). After 1 month of treatment the wound bed was cleaned and there was no odour. Healthy granulating tissue was present and the healing process was in good progress. (Figure 4).

Dressing Performance

The dressing demonstrated good absorption capacity and good patient comfort. The Nurse found the dressing easy to apply and remove. No infections or adverse events were reported.

Conclusion

In conclusion, during the one-month treatment period Biatain Ag effectively eliminated signs of local infection and supported healing of this heavily exuding sacral pressure ulcer. Elimination of odour and a significant increase in healthy granulation tissue was observed already after one week.

Medical history

The patient is an 88 years old woman with a highly exuding stage III sacral pressure ulcer. The ulcer had persisted for 2 months and had previously been treated with standard moist wound healing products. The ulcer had several signs of local infection; the ulcer had a significant odour and was heavily exuding. A small undermining was present at the top of the ulcer and there was approximately 50% unhealthy necrotic tissue in the wound bed. Figure 2 shows the ulcer at inclusion.

Biatain[®] Ag Adhesive

Superior absorption – for infected wounds that need extra adhesion

Biatain Ag

Adhesive Foam Dressings with silver



	Item no.	National code
12.5x12.5	9632	
15x15	3464	
18x18	9635	
7.5x7.5	9631	

Biatain Ag

Adhesive Foam Dressings with silver / shapes



	Item no.	National code
17x17 sacral	3483	
23x23 sacral	3485	
19x20 heel	3488	

Product ordering information For product availability please contact your local Coloplast office or distributor.
Find contact information at www.coloplast.com

References: **1.** Grey JE et al. Pressure Ulcers. BMJ 2006, 332, 472-475. **2.** National Pressure Ulcer Advisory Panel. Rockwill, Md: West Dundee, Ill: S-W Publication 1989, 5-6. **3.** Enoch S, Harding K. Wounds 2003, 15(7), 213-229. **4.** Kingsley A. OWM 2003, 49(7A suppl), 1-7. **5.** Ip et al. Antimicrobial activities of silver dressings: an in vitro comparison. Journal of Medical Microbiology 2006;(55):59-63. **6.** Basterzi et al. In-vitro comparison of antimicrobial efficacy of various wound dressings. Wounds July 2010. **7.** Münter et al. Effect of a sustained silver-releasing dressing on ulcers with delayed healing: the CONTOP study. Journal of Wound Care. 2006;15(5):199-206. **8.** Schwarzkopf et al. The release of silver ions from foam dressings. Wound Management January 2010. **9.** Buchholtz. An in-vitro comparison of antimicrobial activity and silver release from foam dressings. Poster presented at Wounds UK 2009, Wound Care Conference Harrogate. **10.** Jørgensen et al. The silver-releasing foam dressing, Contreet Foam, promotes faster healing of critically colonised venous leg ulcers: A randomised, controlled trial. International Wound Journal. 2005;2(1):64-73.

Ostomy Care
Urology & Continence Care
Wound & Skin Care



Coloplast develops products and services that make life easier for people with very personal and private medical conditions. Working closely with the people who use our products, we create solutions that are sensitive to their special needs. We call this intimate healthcare. Our business includes ostomy care, urology and continence care and wound and skin care. We operate globally and employ more than 7,000 people.

The Coloplast logo is a registered trademark of Coloplast A/S. © 2012-02.
All rights reserved Coloplast A/S, 3050 Humlebæk, Denmark.

Coloplast A/S
Holtedam 1
3050 Humlebæk
Denmark

www.coloplast.com