

Askina® Calgitrol® Ag

Type	Improved wound healing	Antimicrobial Activity	Tolerability and Cytotoxicity	Page
In-vitro			●	39

Comparative Evaluation of Erythema and Edema Skin Reaction and Skin Discoloration

Work carried out in conjunction with the University of Florida, USA, for the FDA submission file 510(k) Report HOSP240 at B. Braun Hospicare

Objective

To evaluate the irritation reactivity of several silver-containing dressings for: erythema, oedema, skin discoloration

Method

The skin on the inner forearm was swabbed in its entirety with 70% isopropyl alcohol to remove traces of oils and cleanse the surface. Rectangles (approx. 6 × 12.5 mm) were cut from each dressing and affixed to a band-aid, which was then applied to the skin. Where the product was in the form of a foam gel, a one gram quantity of the gel was placed on the surface of the band-aid and then affixed to the skin in the appropriate place. The dressings were arranged to avoid the area of the bent elbow.

Results

None of the dressings caused Erythema. Two of the dressings (3 and 5) showed very slight to slight signs of Edema. All of the dressings showed signs of discoloration except Askina® Calgitrol® Ag and silver island dressing B.

Silver-containing dressings tested	Skin Discoloration	Erythema	Edema
Askina® Calgitrol® Ag - B. Braun Medical	0	0	0
Burn dressing A (nanocrystalline silver)	1	0	0
Burn dressing A (nanocrystalline silver)	3	0	1
Silver dressing B (nanocrystalline silver)	2	0	0
Silver dressing B (nanocrystalline silver)	3	0	2
Film silver dressing A	0	0	0
Film island dressing B	0	0	0

A 0 to 4 score was used to evaluate the skin reactions for erythema, edema and any discoloration.

Conclusion

Askina® Calgitrol® Ag wound dressings do not cause any discoloration or skin staining.