

# An Economic Evaluation of Four Skin Damage Prevention Regimens in Nursing Home Residents with Incontinence

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## OBJECTIVE

- To compare the cost and efficacy of four regimens for preventing incontinence-associated dermatitis in nursing home residents.

## METHODOLOGY

- 16 nursing homes were randomly recruited from the National Registry of Nursing Homes.
- Sites were required to have at least 90 beds and at least 40 incontinent residents.
- Time to complete care for prevention of incontinence-associated dermatitis was measured and the occurrence of dermatitis was monitored.
- Manufacturers' instructions for use were followed; 3M™ Cavilon™ No Sting Barrier Film was applied three times weekly while the other three skin barrier products were applied after each incontinence episode. A skin cleanser of each of the manufacturers was used.

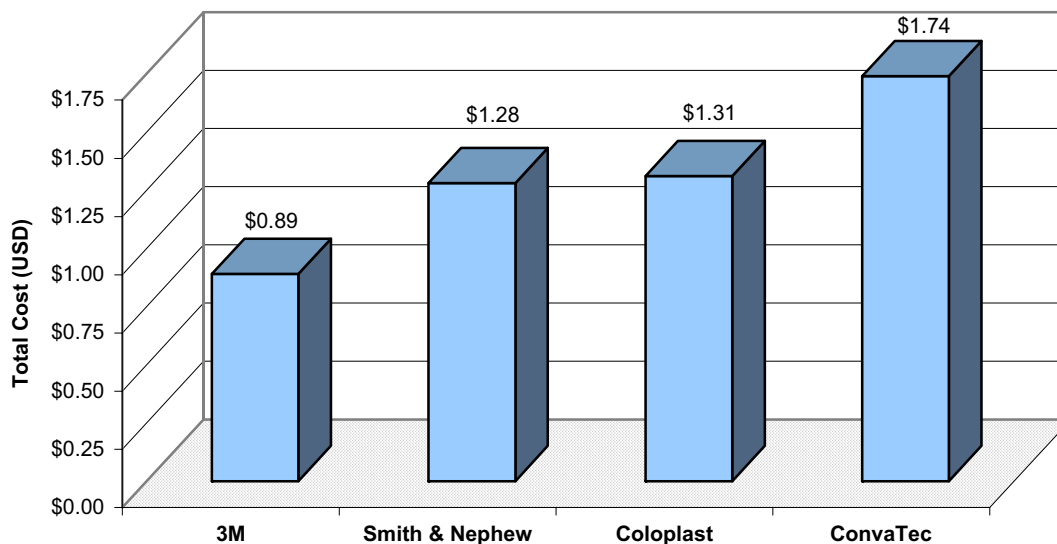
## ECONOMIC ANALYSIS

- Total cost of incontinence dermatitis prevention was determined by the cost of skin care products, supplies, and labor using the measured time of 1 to 2 caregiver staff.
- Staff assessed residents' skin for 6 weeks to determine efficacy of the regimens.

## CONCLUSION

- The 3M skin damage prevention regimen using Cavilon No Sting Barrier Film three times per week had a significantly lower total cost ( $p < 0.001$ ).
- Overall occurrence of skin damage was 4.6% (45/981 residents), of which 74% (33/45 residents) was attributed to incontinence dermatitis. There was no difference in skin damage or incontinence dermatitis outcomes among regimens ( $p > .05$ ).
- Use of 3M Cavilon No Sting Barrier Film three times weekly is as effective in preventing incontinence dermatitis as products that require application after each episode of incontinence.

Total Cost (products, supplies & labor) of Incontinence Dermatitis Prevention Regimens Per Episode of Incontinence per 1 to 2 caregivers



### Barriers used in the study:

3M™ Cavilon™ No Sting Barrier Film  
Coloplast Sween® Baza® Protect Cream  
Smith & Nephew Secura™ Protective Ointment  
ConvaTec Aloe Vesta® Protective Ointment

### Cleansers used in the study:

3M™ Cavilon™ Skin Cleanser  
Coloplast Peri-Wash® Incontinent Cleanser  
Coloplast Peri-Wash® II No-Rinse Perineal Cleanser  
Smith & Nephew Secura™ Personal Cleanser  
ConvaTec Aloe Vesta® Perineal/Skin Cleanser



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