

The Effect of Using Dimethicone Impregnated Cloths on Prevention of Incontinence-Associated Dermatitis (IAD) in the Adult ICU/IMC

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BACKGROUND

- 4E SICU is a 24 bed unit, comprised of ICU/IMC patients.
- The prevention of Hospital-Acquired Pressure Ulcers is a hospital initiative and is now linked to CMS reimbursement.
- A multi-step method of lotions and barrier creme with basins has traditionally been used for cleaning incontinence and the prevention of Incontinence-Associated Dermatitis (IAD).
- Disposable cloth methods have been rejected in the past as contributing to plumbing clogs, sewage backups and floods.

OBJECTIVES

- Evaluate the all-in-one barrier cloth and its effects on Incontinence-Associated Dermatitis (IAD) and Hospital-Acquired Pressure Ulcers (HAPU).



- Reduce the cost of incontinence cleaning/barrier products as well as process variation.
- Evaluate stainless-steel Traptex Plumbing Protection System to prevent toilet clogs and sewage back-ups.

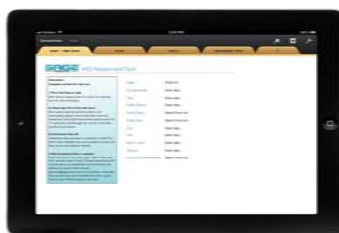
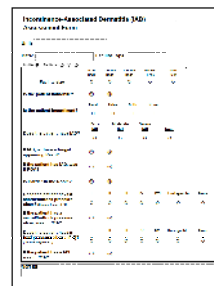


INCONTINENCE-ASSOCIATED DERMATITIS (IAD)



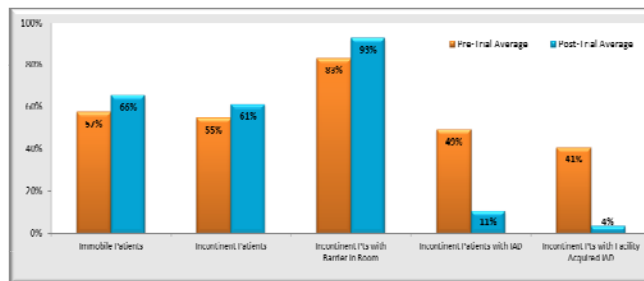
- IAD is the leading risk factor for sacral buttocks pressure ulcers.¹

IAD ASSESSMENT TOOL

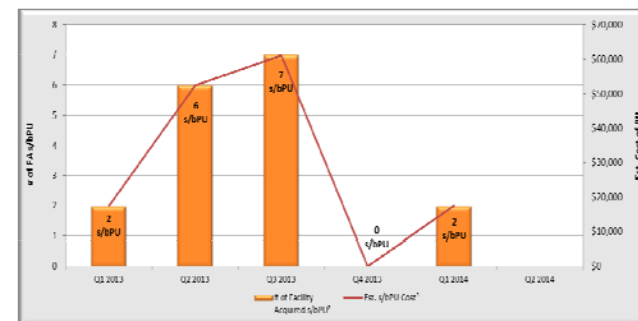
- Incontinence Associated Dermatitis (IAD) prevalence and sacral PU prevalence data were extracted from a database of point prevalence data (N=791). Descriptive statistics were provided using frequency and percentage of cohort. Missing data values are noted in tables. A digital point prevalence tool was utilized for data collection.²

CLINICAL OUTCOME – IAD ASSESSMENT



- 79% Decrease in IAD from Pre vs. Post surveys.
- 91% Decrease in Unit Hospital Acquired IAD.
- 12% Increase in compliance to having a barrier in the room.
- Staff evaluations of Comfort Shield resulted in 95% approval.

CLINICAL OUTCOME - HAPU



- Q4 2013 (Intervention Period) was only quarter to show ZERO HAPU in 5 quarters measured.

CONCLUSIONS

- Use of Comfort Shield as an all-in-one product for cleaning, treating and protecting the skin along with measurement by the IAD Assessment Tool proved to dramatically reduce IAD and process variation.
- The zero HAPU during the trial period is likely due, in part, to the reduction of IAD.
- The cost savings per cleaning will be a significant savings measure.
- The Traptex System has been very well received by staff and resulted in a significant reduction in work orders. Saving the hospital plumbing infrastructure from damage and untold financial savings.

REFERENCES

1. Maklebust, J, Magnan MA, AdvWound Care, Nov 1994;7(6):25, 27-8 31-4 passim.
2. Gray, Mikel PhD et al. Incontinence Associated Dermatitis in the Acute Care Setting: A Prospective Multi-site Epidemiologic Study. Poster session presented at: 23rd Annual Meeting of the Wound Healing Society, SAWC Spring/WHS Joint Meeting: May 1-5, 2-13. Denver, CO.