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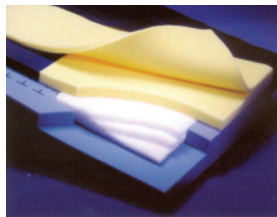
Problem:

Escalating costs for bed rentals, age of current hospital mattresses and increasing incidence of hospitalised acquired pressure ulcers were the catalyst for an interdisciplinary approach to mattress management.

■ PROCESS

Interdisciplinary Group

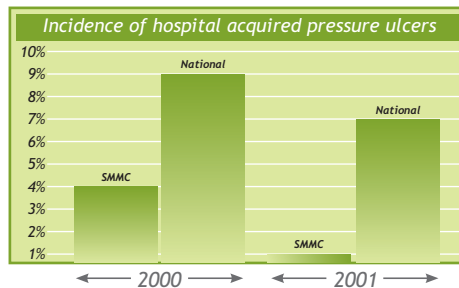
An interdisciplinary group was formed which consisted of hospital staff registered nurses, clinical nurse specialists, physical therapist, and dietician; plastic surgeon; wound care centre manager and staff registered nurses; and resource manager of the St. Luke's - Shawnee Mission Health System. This interdisciplinary group examined.



- Current age and usage hospital mattresses
- Current hospital and national data on incidence of pressure ulcers
- Results of mattress trials within the hospital
- Rental procedure of current rental mattresses
- Cost of current rental mattresses
- Decentralised ordering of rental mattresses



■ RESULT



Bed Selection Criteria document					
NOTE: Assessment for bed selection requires consideration of the following three factors: weight, Braden score, and presence of pressure ulcers. The patient should be placed on the bed surface appropriate for the most serious risk.					
Patient Weight	<300 lb.			>300 lb.	
Braden Score*	>15	14-11	<10	>15	<14
Pressure Ulcer (if an ulcer may be related to pressure or is located in sacral area, call CNS or WCC to help needs)	Stage III or IV ulcer (open with depth) • None or Stage I - II ulcer (nonblanchable erythema or open without depth)	Stage IV ulcer (open with depth) • <Stage III ulcer (shallow crater)	Stage IV ulcer (deep tissue destruction)	Stage I - IV ulcer • None	Stage I - IV ulcer
Selection	Maxifloat L or GayMar SPR Plus II	AccuMax	UniMed Select Air	UniMed Size Wise	UniMed Size Wise with overlay
Action	Maxifloat L is the mattress currently on the white Hill Rom bed frames • GayMar SPR II can be placed as an overlay on brown Hill Rom frame and mattress - order from central processing	AccuMax mattresses are currently on the ICU beds. Other units can be ordered from Environmental Services	Contact Biomed to order appropriate rental bed / surface. Also contact Biomed when rental bed / surface is discontinued.		
*If the patient has a Braden Score of 15 or greater, but has a major pulmonary, nutritional, or cardiac deficit, consider using an AccuMax mattress.					

■ FINANCIAL & CLINICAL OUTCOMES:

Clinical Outcomes

- SMMC participated in a Novation/KCI National Pressure Ulcer Point Prevalence and Incidence Study
- In 2000, SMMC incidence of hospital acquired pressure ulcers was 4%, nationally 9%
- In 2001, SMMC incidence of hospital acquired pressure ulcers was 1%, nationally 7%

*The new mattresses eliminated the need for most rental mattresses for Stage 2-3 pressure ulcers.

Financial Outcomes - Mattress Rental Costs (Year 2000-2001)

- Mattress rental costs for Stage 3-4 pressure ulcers decreased from \$45,198 for first three quarters 2000 to \$21,359 for first three quarters 2001 = Savings of 52.75%
- The trend continued with lowered mattress rental costs in 4th quarter 2001.

Bibliography

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The forgoing clinical study was conducted using the AccuMax Quantum Convertible. While the AccuMax Quantum Convertible and other AccuMax mattresses, such as the AccuMax JPN, the AccuMax Quantum PC II, etc., are intended to be used for the same purposes and are of only somewhat different construction, there can be no guarantee that the same results can or will be achieved as those indicated by the study since hospital conditions and patients will always vary.

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