



# SMART ORDERS WITH EMBEDDED LOGIC ALIGN CLINICAL PRACTICE AND GUIDELINES

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## PURPOSE

- Standardize criteria according to evidence-based surface guidelines
- Reassess resource allocation
- Build an electronic system guarantying criteria adherence through smart order development with embedded logic
- Guide clinicians to appropriate surface orders

## SIGNIFICANCE

- Certain surgical procedures, wound characteristics and patient risk factors require greater pressure relief necessitating rental of specialty support surfaces to optimize clinical outcomes
- Previously, surface rentals lacked clinical practice standardization and exceeded budgetary allowance

## STRATEGY

- Criteria-based orders were implemented based on best practice guidelines
- Rental choices were limited to the five most appropriate
- A specialty bed consult referral and order were built
- All specialty bed orders required a Wound Care Team consult
- Ordering privileges were restricted to the Wound Care Team and operating room charge nurses
- The order requires identification of specific clinical criteria
- Completion of the order automatically leads to the optimal rental surface based on the patient information input

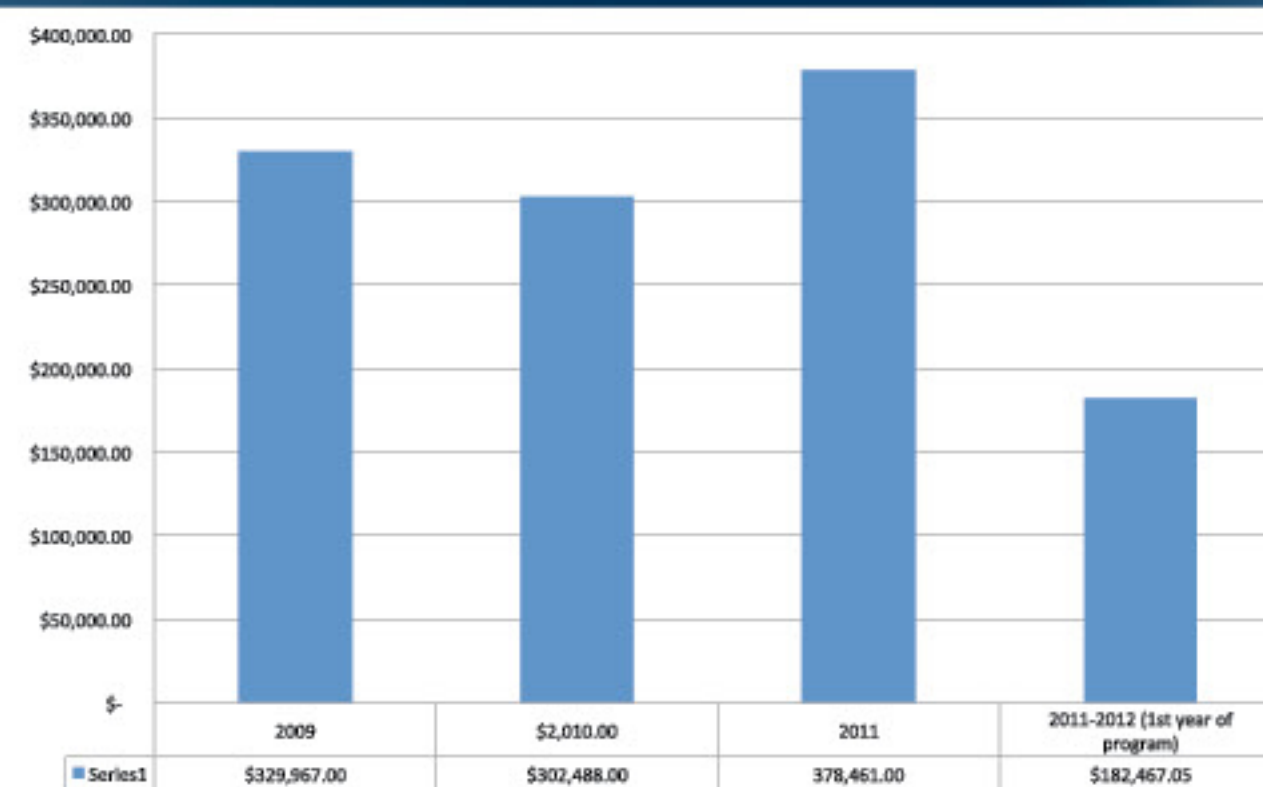
## ORDER SCREENSHOT WITH AUTOMATIC CRITERIA BASED PRODUCT

**POPULATION BED-BOUND**

## ORDER SCREENSHOT WITH AUTOMATIC CRITERIA BASED PRODUCT

**POPULATION SEMI-AMBULATORY**

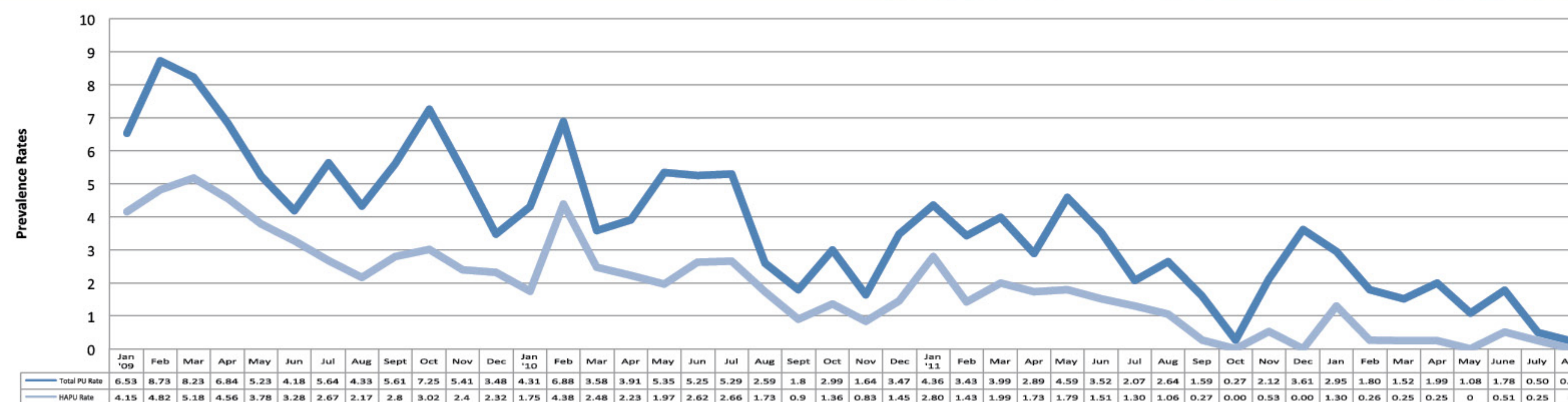
## YEARLY SPECIALTY BED EXPENDITURE JANUARY 2009 - OCTOBER 2012



## HILL-ROM SPECIALTY BED RENTAL EXPENDITURE BY MONTH: NOV. 2011 THROUGH OCT. 2012



## MONTHLY PREVALENCE RATES 2009 TO 2012: TOTAL AND HOSPITAL ACQUIRED PRESSURE ULCERS



## IMPLEMENTATION

- Critical Care/Pediatric Nursing Division driven
- Wound & Ostomy Team led initiative
- Electronic alerts automatically generated to key stakeholders upon order entry and cancellation
- Surgical flaps and grafts assessed daily by the surgical teams
- Patients' wounds and skin reassessed twice weekly by the wound care nurse
- Based on reassessments, bed utilization is adjusted

## EVALUATION

- Order analysis eliminates billing errors and monitors expenditure
- Since inception, expenditures have decreased from \$378,461.00 to \$182,467.05 during the first year representing an approximate 50% cost reduction
- No increase in hospital acquired pressure ulcer prevalence has been noted

## IMPLICATIONS FOR PRACTICE

- Specialty surfaces are one component of a comprehensive pressure ulcer prevention program and surgical, wound, skin management
- Smart orders with embedded logic and electronic communication strategies guarantees best practice adherence, controls resource utilization and streamlines workflow