

Mary Lanning Healthcare Reduces Overall Pressure Injury Prevalence by 77%

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Abstract

In 2015, the management team of Mary Lanning Healthcare, a 161 bed community hospital in Hastings, Nebraska, were faced with an over 18% hospital-acquired pressure injury prevalence combined with house-wide support surfaces that were beyond therapeutic lifespan, and a recognized pressure ulcer prevention and treatment staffing knowledge deficit. They needed support to address these issues. They partnered with Hill-Rom's Clinical Outcomes Manager who provided access to needed education and staff training, a support surface evaluation and a tiered 2-year bed replacement plan.

In 2016, hospital-acquired pressure injury prevalence dropped by 77%, and there were no PIs identified that were Stage 2 or greater. Staff were able to provide excellent evidence based care, the hospital has recently listed among the top 10% of hospitals for patient safety and medical excellence in the state of Nebraska.

Background

Mary Lanning Memorial Hospital was established in 1915 by Mr. and Mrs. William Lanning as a hospital and school of nursing to serve the rural area of Hastings, Nebraska following the tragic death of the Lanning's 21-year-old daughter as a result of pneumonia. Today, Mary Lanning Healthcare is a 161 bed healthcare organization offering a comprehensive array of medical services and includes affiliations with the Creighton University School of Nursing, The Mary Lanning School of Radiologic Technology and the Nebraska Methodist School of Respiratory Therapy serving south central Nebraska and parts of Kansas.

Problem

In 2015, Ronda Ehly, the Chief Nursing Officer, along with her combined staff were faced with support surfaces that were beyond their therapeutic lifespan throughout the facility, a recognized knowledge deficit regarding pressure ulcer prevention practices, and a hospital-acquired pressure injury prevalence rate of 18.8%. They needed support to address these high pressure injury rates. Some specific areas of focus included decreasing shear when moving and repositioning patients, and in performing and documenting skin assessments on hospital admission.

Intervention

The Mary Lanning team partnered with Hill-Rom to first evaluate their support surfaces and frames; and secondly to provide needed education and staff training. Each bed in the facility was evaluated for:

1. Frame functionality
2. Support surface age and therapeutic integrity
3. Unit acuity level and assessment of support surface/bed frame requirements

The evaluation identified many out of date frames and surfaces, therefore the decision was made to initiate a tiered process for bed replacement. Over a period of 2 years, Advanta™ 2 frames with AccuMax Quantum™ VPC surfaces were placed in intermediate and progressive care units; Progressa® Pulmonary beds were placed in the ICU's.

The Hill-Rom Senior Clinical Outcome Manager performed four Safe Skin® Continuing Education programs for the staff which included:

1. Pressure Ulcer Risk Assessment
2. Skin Basics: Skin Assessment and Pressure Ulcer Staging
3. The Science of Support Surfaces: Nomenclature, Design for Performance and Selection
4. Impact of Linens on Surface Performance

Benefits / Results

Hospital-acquired prevalence rates dropped from 18.8% to 4.3% following the placement of new support surfaces and implementation of Safe Skin® Program interventions. If Stage 1 pressure injuries are excluded the Hospital-Acquired Pressure Injury (HAPI) rate dropped from 5.5% to 0%. The staff were more comfortable, as they knew that they were providing excellent evidence based pressure injury prevention care, and several staff members are working toward wound care certifications.

The nursing staff are highly satisfied with the Advanta™ 2 beds and the features provided for pressure injury prevention and skin integrity. The ICU/PCU manager states “the education provided by Hill-Rom helped reinforce evidence based care and provided staff with an understanding of the new technology and science of skin care.”

In 2016, Mary Lanning Healthcare was listed as being among the Top 10% in the state for Patient Safety and Medical Excellence from the medical quality rating system CareChex® — an information service of Quantros, Inc. “Hill-Rom was very helpful to the hospital in partnering to improve outcomes for Mary Lanning’s patients,” said Ronda Ehly, Chief Nursing officer.

Pressure Injury Prevalence

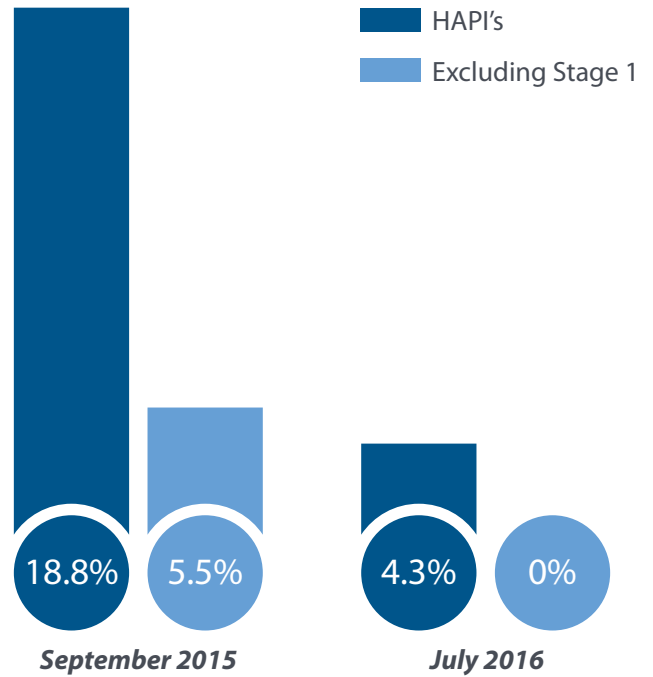


Figure 1. HAPI rates were 18.8% in 2015, and 5.5% of those HAPI's were Stage 2 or greater. In 2016, overall HAPI rates were 4.3% and there were no PI's identified that were Stage 2 or greater.

OVERALL PI PREVALENCE
77%
REDUCTION
WITH NO HAPI'S STAGE 2-4

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