Fully Relieved: Interprofessional MDRPI Prevention

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Background
Hospital acquired pressure injuries (HAPI) cause pain, infection, longer length of stays and increased costs. Prevalence rates in adults of medical device-related pressure injuries (MDRPI), one sub category of HAPI, range as high as 50%, with respiratory devices the bulk of these (Pittman & Gillespie, 2020). At West Kendall Baptist Hospital (WKBH), the rate of pressure injuries per 1,000 patient days related to respiratory devices in August 2021 was 2.41 (total four pressure injuries).

Project Goals/Objectives
The goal of the project was to reduce the rate of MDRPIs in WKBH’s the stepdown unit through proactive, collaborative interprofessional prevention interventions.

Methods of Implementation
• September 2021, following introduction of an alternative to pressure injury causing non-invasive airway devices by the Wound Care Nurse, Nursing and Respiratory collaborated to implement “Fully Relieved”.
• On a daily basis, Respiratory Educator proactively rounded on all patients with respiratory devices across the hospital, identifying respiratory devices in use, if protective barriers were in place and if a change to a total mask was completed.
• High risk patient non-invasive airway devices were changed to a total face mask to prevent pressure injury on facial bony prominences.
• Respiratory Educator then emailed a daily report of these rounds to wound care nurses, clinical nurse educators, leaders of applicable nursing departments, and hospitalist and intensivist groups.
• August 2021, prior to implementation of “Fully relieved” initiative, the stepdown unit respiratory MDRPI rate per 1,000 patient days was 2.41.
• October-December 2021 stepdown unit respiratory MDRPI rates per 1,000 patient days were zero.
• That represents a 100% decrease in stepdown unit respiratory MDRPIs per 1,000 patient days from pre-intervention to post-intervention timeframe.

Discussion
Partnering with internal experts leverages a Magnet culture of nursing excellence to optimize organizational performance. Proactive interventions, as a result of collaboratively appraising HAPI data, successfully reduced respiratory MDRPIs.

Reference

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