Look Who’s Turning?

Implementation of a wireless patient movement monitoring system as part of a Pressure Ulcer prevention process improvement on a Medical/Surgical Unit

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Purpose

Patient turning is the mainstay of pressure ulcer prevention. Literature shows that compliance to turn protocols varies from 15%-66%1 2 3 4 5.

This performance improvement project intended to identify characteristics in patient turning practices on a busy 27-bed medical/surgical unit by using a novel technology that alerts nurses when patient turns are due.

Methods

A FDA-cleared, wireless monitoring system (Leaf Healthcare, Pleasanton CA) was implemented on the unit. The system automatically resets individualized turn clocks for all patient turns that meet pre-set angle and tissue decompression thresholds.

A 2-hour turn protocol was assigned to all patients.

Results

3287 hours of turn data were gathered from 69 patients over 31 days.

Average protocol compliance during the period was 88.5% (varied between 78% and 98%). Least compliant times coincided with shift changes, high patient admit days and medication delivery times.

Conclusions

This process improvement project provided nursing management evidence-based data to justify adjusting staffing levels during certain days of the week and times of the day when turning demands exceeded available resources.

REFERENCES

2 AHRQ, Center for Delivery, Organization, and Markets, Healthcare Cost and Utilization Project, HCUPnet, Nationwide Inpatient Sample, 1993-2006