



Carolinah HealthCare System

One

Prevalence and Trends of Patient Falls on a Post-Surgical Unit

Tru Byrnes, MSN, RN-BC, CNL, CMSRN
Carolina Medical Center
Charlotte, NC, USA

Disclosure Information

| | |
|---|--|
| Presenter Name | Tru Byrnes, MSN, CNL, RN CMSRN |
| Conflict of Interest | None |
| Employer | Carolinas Medical Center-Main Charlotte, North Carolina |
| Sponsorship / Commercial Support | None |



One



Carolinas HealthCare System

Carolinas Medical Center
(CMC-Main)
Charlotte, North Carolina
Level 1 Trauma
Academic Hospital



One



Carolinas HealthCare System

Objectives

- Identify common risk factors for patient falls on a post-surgical unit.
- Develop strategies to decrease falls.



One



Carolina's HealthCare System

Purpose



The purpose of this quality improvement project sought to answer these clinical questions

- What were the common risk factors for patient falls?
- What time of day did the fall occur?
- What was the staff pattern when patients fell?



One



Carolina's HealthCare System

Background

- Falls are the most common adverse events in hospitalized patients contributing to pain, suffering, morbidity, mortality, and increases in health care costs (Aydin, Donaldson, Aronow, Fridman, & Brown, 2015).
- Cost of each fall ranges from \$14,000 to \$35,000. The rate of falls in US hospitals ranges from 3.1 to 11.5 per 1,000 patient days and varies by unit type. Neurosurgery, neurology, and medical units have the highest fall rates (Bouldin et al., 2014).
- Many falls risk factors have been identified including intrinsic, extrinsic, and environmental factors (Urquhart, & Wilber, 2013).
- Recommendations, fall prevention strategies should include a wide range of actions to promote patient safety (Williams, Szekendi, & Thomas, 2014).



One

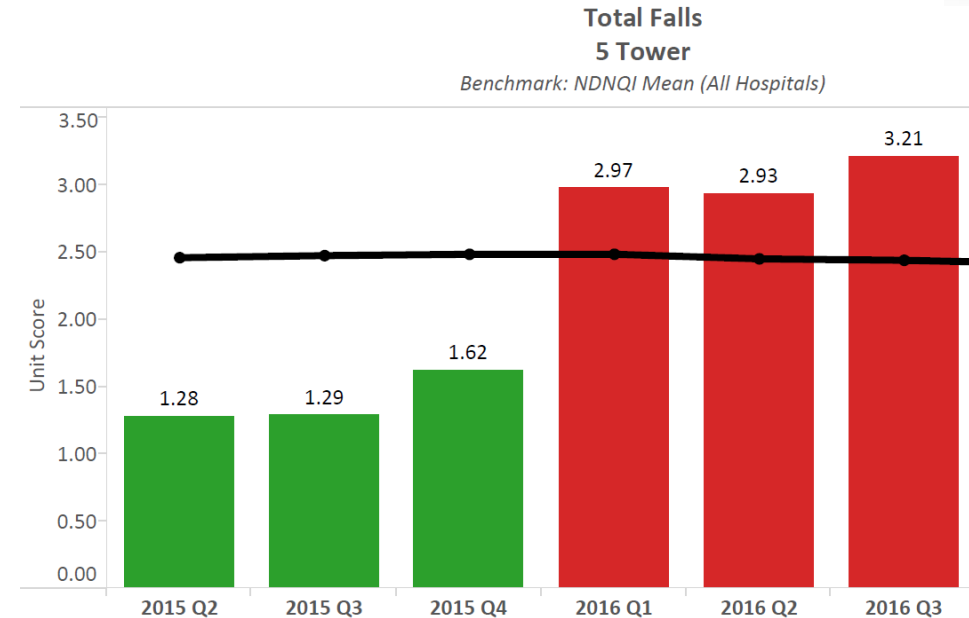


Carolinas HealthCare System

Problem Identifications



- 5 Tower's fall performance ranges from 1.28 to 3.54 per 1,000 patient days from 2014 – 2016.
- 2016, the patient fall rate has consistently underperformed compared to the mean of the national benchmark.



Carolinas HealthCare System (n.d) *Patient Falls*. Retrieved from <https://carolinashealthcare.sharepoint.com>



One



Carolinas HealthCare System

Setting

- 5T Med-Tele unit
- 36 private beds
- Patient population
 - GI, ENT, reconstructive plastic Sx, trauma, urology, & medical
- Nurse-patient ratio
 - 1:5 to 1:6



One



Carolinan HealthCare System

Methods

- Review Post-Fall Records = 70
 - The post-fall records indicated time, date, unit census, medications, injury, and number of Registered Nurses (RNs) and Certified Nursing Assistants (CNAs)/ Health Care Tech (HCTs).



One



Carolina's HealthCare System

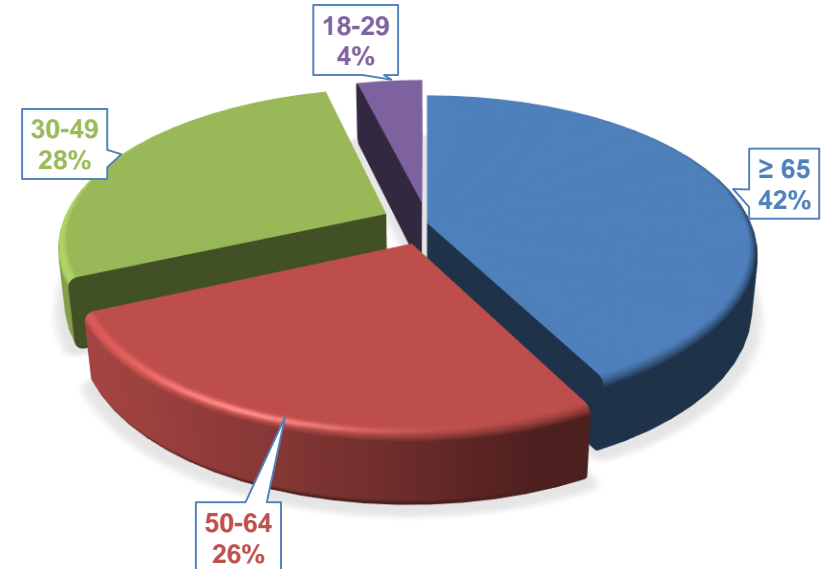
Results

1) What were the common risk factors?

- Female > male (51% > 49%)
- Geriatric patients ≥ 65
- Confusion
- Impulsiveness
- Toileting help falls



**PATIENTS AT RISK FOR FALL
BY AGE GROUP**



One



Carolina's HealthCare System

Results Cont..

2) What time of day did the fall occur?

- 1 AM, 5 AM, 6 AM, 10 AM, 1 PM, 4 PM, and 7 PM
- Peak at 1 AM and 1 PM



One



Carolina's HealthCare System

Results Cont..

3) What was the staff pattern when patients fell?

Interestingly, most falls happened when the unit was staffed adequately (1:5 nurse to patient ratio and 1:12 HCT/CNA to patient ratio)



One



Carolina's HealthCare System

Nursing Implications

This project answered the above clinical questions and helped the unit to develop strategies in fall preventions.

- Developed a bed alarm criteria
- Identified and correlated the time of patient falls with nursing tasks
- Encouraged staff to use purposeful rounding or toileting program to decrease fall
- Currently, there are nurses who underwent geriatric advanced training to become geriatric resource nurses (GRNs) to help improve patient outcomes in geriatric population



One



Carolina's HealthCare System

References

- Aydin, C., Donaldson, N., Fridman, M., Brown, SD. (2015). Improving Hospital Patient Falls Leveraging staffing characteristics and processes of care. *The Journal of Nursing Administration*. 45 (5): 254-262.
- Bouldin, D.E., Andresen, M. E., Dunton. E. N., Simon, M., Waters, M. T., Liu, M., Daniels, J. M., Mion, C. L., Shorr, R., (2013). Falls among adult patients hospitalized in the United States: Prevalence and Trends
- Williams T., Szekendi, M., Thomas, S. (2014). An analysis of patient falls and fall prevention programs across academic medical centers. *J Nurs Care Qual*.29(1):19-29.
- Urquhart Wilbert, W. (2013). The effectiveness of a fall prevention/management program in reducing patient falls: A retrospective study. *The Journal of Chi Eta Phi Sorority*. 57 (1), 24-27



One



Carolinus HealthCare System



Tru.Byrnes@carolinashealthcare.org



One



Carolinas HealthCare System



One



Carolina's HealthCare System