



Centura
Health®

Collaring Pressure Ulcers

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Disclosure Statement

- I have no financial disclosures to report.

Background/Purpose

- Pressure ulcer = Never event
- October 2016 Identification of stage III and IV cervical collar medical device-related pressure ulcers (MDRPU)
- Developed a multidisciplinary collaborative approach to reduce incidence of cervical collar MDRPU

Project Design

- Adult trauma patients retrospective pre-post study
- Pre- study 1/1/15 to 10/31/16
- Post-study 11/1/16 to 8/31/18

Setting



- 522-bed acute care facility in Colorado Springs
- We are part of Centura Health, delivering care across 17 hospitals, two senior living communities, health neighborhoods, physician practices and clinics, home care and hospice services, and Flight For Life® Colorado in Colorado and western Kansas
- State Designated Level II Trauma Center
- ACS Verified Level 1 Trauma Center
- 2018 Trauma Patient Volume: 1323
- Top 3 MOIs: Falls(80%), MVC(13%), MCC(5%)
- Colorado Springs Population: 700,000

Sample

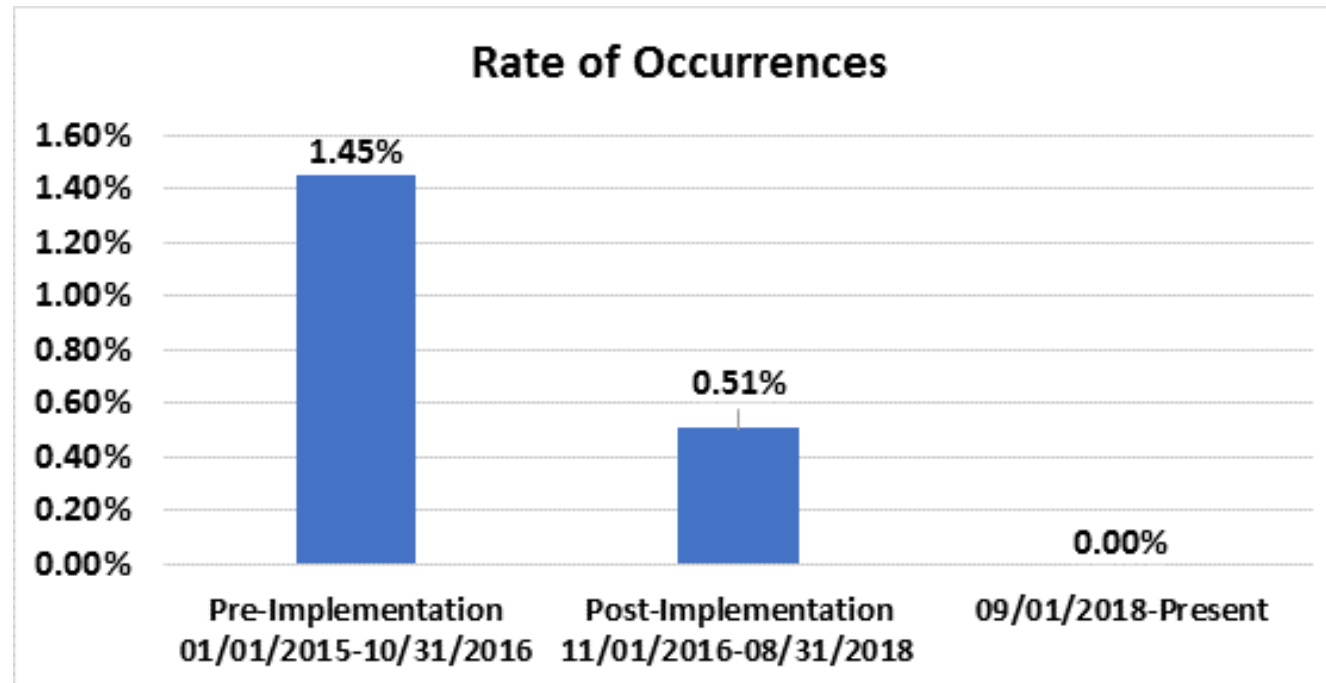
- Trauma patients ≥ 18 years with a coded cervical spine injury (CSI)
- 138 CSI patients in pre-study
- 198 CSI patients in post-study

Procedures

- Root cause analysis performed October 2016 identified opportunities for improvement
 - **Review** of cervical collars in collaboration with neurosurgical partners
 - **Education** provided to bedside staff related to cervical collars, skin/collar care, documentation
 - **Process changes** for bedside nurses and Trauma Quality Specialists

Results

- Cervical Collar MDRPU Incidence decreased from 1.45% to 0.5% in post study period (11/1/16-8/31/18)
- Last Cervical Collar MDRPU occurrence April 2017



Discussion and Implications

- **Successfully reduced Cervical Collar MDRPU incidence** after product analysis, process changes, and education
- Aspen® collars preferred by multidisciplinary Trauma Team
- Trauma registry to include cervical collar in procedures for ease of tracking
- TQS **individual rounding** on patients with cervical collars
- Cervical collars discussed in nursing report/Interdisciplinary rounds
- **Teaching sheets** dispersed to nursing units

References

- Cooper K. Evidence-Based Prevention of Pressure Ulcers in the Intensive Care Unit. *Critical Care Nurse*. 2013; 33(6):57-58
- Ham, W. H., Schoonhoven, L., Schuurmans, M. J., & Leenen, L. P. (2016, January 14). Pressure ulcers in trauma patients with suspected spine injury: A prospective cohort study with emphasis on device-related pressure ulcers. Retrieved October 17, 2018, from 2016 Medicalhelplines.com

Thank you!

