Respiratory Device-Related Pressure Injuries in Critical Care

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INTERVENTIONS

- Established an interprofessional team to address the gaps in knowledge and inconsistencies in care among RN and RT staff
- Evaluated the current practice standards in the assessment, management, and documentation of patients requiring a respiratory device in critical care
- Educated RN and RT staff on care standards to prevent respiratory device-related pressure injuries
  - Education tip sheets outlining standards of skin care (Figure 1 & Figure 2)
  - Held individual and group in-services
  - Initiated simultaneous RT/RN collaborative skin assessments
- Improved compliance of documentation for patients with NIPPV masks and ET holders
  - Developed an auditing tool to measure documentation compliance (Figure 3)
  - Random chart audits in Q2-2016 through the end of Q4-2016
  - Real-time feedback regarding their documentation compliance
  - Unit monthly pressure injury incidence rates were monitored and recorded in a unit logbook

RESULTS

Respiratory Device-Related Pressure Injury Incidence

- 98% of RN and RT staff were educated during Q1-2016 using the developed education sheets (Figure 1 & Figure 2)
- RDRPI incidence rate reduced by 50% in Q2-2016 (Graph B).

Documentation Compliance

- Random chart audits were completed twice per week (30 per quarter) using the auditing tool (Figure 3)
- 24-hour period of documentation audit

OUTCOMES

- MICU RDRPI incidence decreased by 50% in Q2-2016 and had ZERO RDPI during Q3-2016
- MICU maintained >80% documentation compliance for patients with ETT holders each quarter
- NIPPV mask documentation compliance improved each quarter and met the compliance goal of >80% in Q4-2016
- Expanded to other units within NYULMC
- Updated NYULMC respiratory care standard
  - Interprofessional team building and shared governance

CONCLUSIONS

- MDRPs are common in ICU patients and must be closely monitored
- NIPPV masks and ETT holders place the patient at an increased risk for developing MDRPs
- Standardized care and interprofessional collaboration is important in the prevention and management of MDRPs
- On-going education for both new and current staff is imperative in the prevention of RDRPIs

PROBLEM

- CY15 MICU had 6 MDRPs
- Q1-2016 MICU had 12 MDRPs, 9 caused by respiratory devices (2.1% incidence)
- Address the rise in respiratory device-related pressure injuries (RDRPI) from NIPPV masks and ETT holders

PURPOSE & GOALS

- Evaluate the current practice standards
- Design and implement care standards to prevent respiratory-MDRPs
- Educate nursing (RN) and respiratory (RT) staff on care standards of prevention
- Improve compliance of documentation for respiratory devices (Goal >80%)
- Reduce the MICU’s RDRPI incidence rate by 50% in Q2-2016, with the long-term goal of zero pressure injuries in Q3 and Q4.

REFERENCES


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