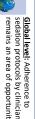
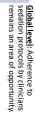
Improving ICU nurse adherence to sedation titration goals via education of the Richmond Agitation Sedation Scale

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Background







extubation & invasive line ICU nurses lean towards deeper sedation to prevent patient self-

National level: 300,000 people are mechanically ventilated each year & sedation drips are used to manage critically ill patients. TIME

Local level: Adherence to light sedation goals (RASS 0 to -2) is an area of opportunity for ICU

Significance of the Problem

patients has been associated with delirium, prolonged intubation time, extended ength of ICU stay, and even mortality when deep sedation with drugs like Propofol ack of adherence to sedation titration goals by clinicians caring for critically ill

Purpose and Aims

using the prescribed Richmond Agitation Sedation Scale (RASS) goal to guide their online educational module "Sedation Management of the Mechanically Ventilated **Patient in the ICU"** on the adherence of ICU nurses when titrating sedation drips urpose: This nurse-led QI project sought to determine the effect of a one-hour

Aim 2: Measure knowledge of the ICU RNs on sedation management of vent patients. **<u>\im 1**</u>: Assess SICU RNs baseline adherence rate to sedation titration goals

Aim 3: Measure RN adherence rate post educational intervention.

Methods

Design: Pre/Post-test design

Setting: 12-bed Surgical ICU in a 700 + bed academic teaching hospital

Sample: SICU RNs (n=25)

vention: Online educational module

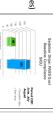
Data Collection: 12 weeks (January – March 2022)

<u>Data Analysis:</u> Paired 2-tail *t-*test, chi-squared test, and descriptive statistics

Results

Aim 1: Assess SICU RNs baseline adherence rate to sedation titrations

Compliance: 22% Data Analysis: Descriptive statistics (counts and percentages) Format: Chart Reviews (June, July, August 2021)



Format: 14 question pre-test/post-test Aim 2: Measure knowledge of the ICU RNs on sedation management of vent patients

Lesson 1: Experience of the Ventilated Patient

- Stress of mechanical ventilation
- The agitation triad

Knowledge Scores

90

- Lesson 2: Sedation of the Ventilated Patient
- Sedative agents/indications/trends
- Is current practice evidence-based? Consequences of under-and over-sedation
- Lesson 3: Best Practice Recommendations
- Patient-and goal-directed management
- Communicating sedation indications Following protocols
- Initial and daily evaluation of goals
- Weaning strategy

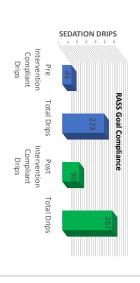
the American Nurses Credentialing Center's Commission on Accreditation NB: HealthStream sedation education module awarded 1.0 contact hour accredited by

Data Analysis: Paired 2 tail t – test

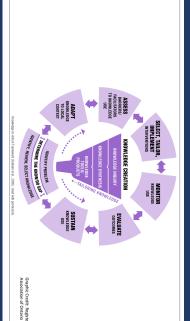
Format: Electronic daily RASS Compliance Reports Aim 3: Measure RN adherence rate 12 weeks post educational intervention

Data Analysis: Chi-square test $[X^2 = 8.23 p = 0.004]$

Compliance: 34%



Translational Framework



Limitations

- Staffing challenges due to the COVID-19 Pandemic increased RN: Patient ratio Missing data: 18/25 RNs completed pre-test, educational intervention and post-test
- Lack of protected time for RNs to complete sedation educational module

Sustainability

- Partnership with Nursing Education Department
- Annual RN Skills Fair to include sedation adherence | Hospital Quality dashboard monthly presentation
- Daily Safety Huddles include sedation management | Pharmacy/physician/nursing continued partnership Monthly chart reviews by frontline RNs
- Nursing Quality Committee- frontline RNs present
- Informatics compliance report emailed daily to ICU
- Joint Commission Readiness Team monthly RASS compliance report helps ensure visibility and

Conclusion

- Adherence to sedation goals was increased by 50% from baseline using educational intervention
- Task clarification knowledge, and auditing with \emph{timely} feedback to practitioner help promote adherence Patient outcomes are improved with effective sedation management
- Behavior change theory looks at prediction of behavior vs prediction of behavior change. Thus, to increase adherence amongst nurses, we need to understand what factors may prevent behavior change

Key Reterences

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