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# Post Sedation Delirium in Pediatrics

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#### BACKGROUND

- Delirium is often linked to sedation usage
- It is common for acute patients in PICU to be on multiple sedation drips with additional PRN doses
- Currently our PICU does not have a method of measuring delirium in patients
- · Delirium can increase length of stay and have long term neurocognitive effects in children

#### PICO

- P: Inpatient pediatric intensive care unit patients who are receiving sedation
- I: Use of Cornell Assessment of Pediatric Delirium (CAPD) scale for recognition of pediatric delirium
- · C: No use of delirium scale
- O: Influence and enhance recognition of pediatric delirium in patients who receive(d) sedation medication

#### **EVIDENCE**

- In one study of ICU level pediatric patients, delirium was present in 20% of the patients (Traube et al., 2014)
- Universal screening for delirium results in quicker identification and earlier implementation of delirium treatments, decreasing delirium prevalence (Simone et
- · Patients screened for delirium are more likely to need additional interventions for comfort (Franken et al., 2018)
- Vulnerable patients (developmentally delayed, infants, etc) are more likely to develop symptoms of delirium (Traube et al., 2018)
- CAPD scale is a validated tool, with a Cronbach's a of 0.9 and 94.1% sensitivity (Traube et al., 2014)

#### **IMPLEMENTATION**

- Re-educate nurses on the State Behavioral Scale (SBS) and how to properly measure a patient's level of sedation
- Educate nurses on S/S of delirium and recognition of delirium in different pediatric patients via assigned TLC PowerPoint
- · Educate nurses on how to use delirium scale when assessing patients
- Implement use of scale on all admitted patients via printed out handout on the floor

 After completing the assigned sedation/delirium TLC, nurses verbalized a better understanding of the different effects of sedation and their outcomes on pediatric delirium

OUTCOME

- · During a one month period, of the 6 patients who were applicable for this study, 4 were reported as having S/S of post sedation delirium according to the CAPD
  - In 2 of the patients, S/S of delirium lasted over several days

#### **NEXT STEPS**

- Continued use of the SBS every hour for intubated patients
- Implement CAPD score into assessment tools
- Continue frequent neuro and mental status exams on patients with sedation
- Implement open communication with patient families about what delirium could look like

ube, C., Silver, G., Gerber, L., Kaur, S., Mauer, E., Kerson, A., Joyce, C., & Greenwald, B. (2017). Delirium and r dren: Epidemiology and outcomes of pediatric delirium. Critical Care Medicine, 45(5), 891-898 doi:10.1097/CCM 



