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Patient Care Services / Nursing

### Concussion Guideline Use in Pediatric Patients.

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## Background

- Currently not using a concussion care guideline • Variability of nursing care / symptom assessment Identified through chart reviews
- Lack of knowledge related to nursing symptom assessment and interventions for pediatric patients with concussions. Identified through survey of Pediatric and PICU RN's
- Low comfort level providing parents and patients with post concussion care education
  - Identified through survey of Pediatric and PICU RN's 57% of nurses felt somewhat or very comfortable providing post concussion education

## Evidence

- There is a significant relationship between immediate cognitive and physical rest, a quicker recovery time and a decreased risk of a prolonged recovery (Tabuman, Rosen, McHugh, Grady, Okan, & Elci, 2016).
- Educational interventions effectively increased trauma core nurses' knowledge and confidence in applying content into practice in regard to concussion care (Hingley & Ross, 2015).
- Many nurses have varied beliefs for caring for patients with TBI which needs to be addressed for consistent and accurate patient care (Oyesanya, Thomas, Brown, & Turkstra, 2016).

## **PICO**

For RN's caring for pediatric trauma patients with a concussion, does utilizing an established concussion guideline versus not using a guideline increase nursing knowledge and confidence in caring for and providing education to patients with a concussion and their family?

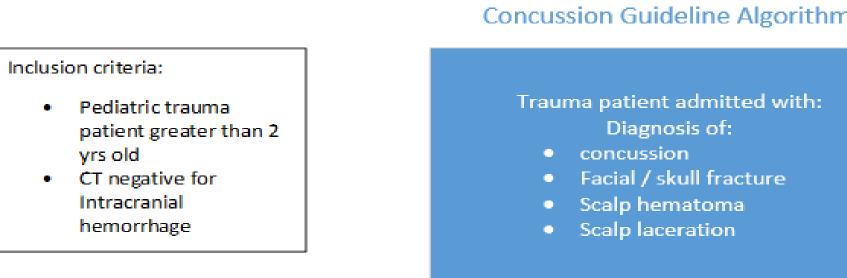
- P RN's caring for a pediatric patient with a concussion
- I Utilization of an established guideline for concussions
- C versus not using a guideline
- O increase nursing knowledge and confidence in caring for and providing education for patients with a concussion and their family

## **Concussion Guideline Use in Pediatric Patients**

## Lehigh Valley Health Network, Allentown, Pennsylvania

## Implementation

- Collaborated with Occupational Therapy, Concussion Clinic, and Trauma to develop a concussion guideline including symptom assessment/intervention checklist
- **RN Pre-survey on PICU and Pediatric Units** - 33 RN's
- Developed staff education
- Obtained Pediatric Quality Improvement Council approval Staff education
- TLC learning module & Reference card RN Post Survey on PICU and Pediatric Unit
- 21 RN's 100% completion of education for post survey results
- Analyzed results



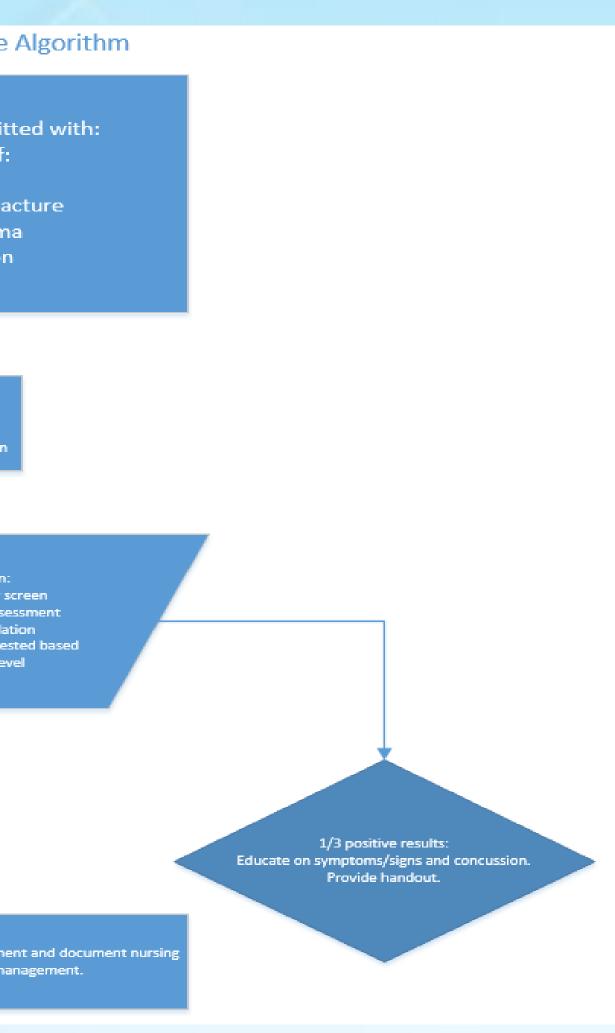
Symptom list Headache Nausea Vomiting Balance problem Dizziness Visual problems Sensitivity to light Sensitivity to noise Neck pain

Nursing Interventions Cluster nursing care Limit light Physical rest Cognitive rest games Movie Medication administration

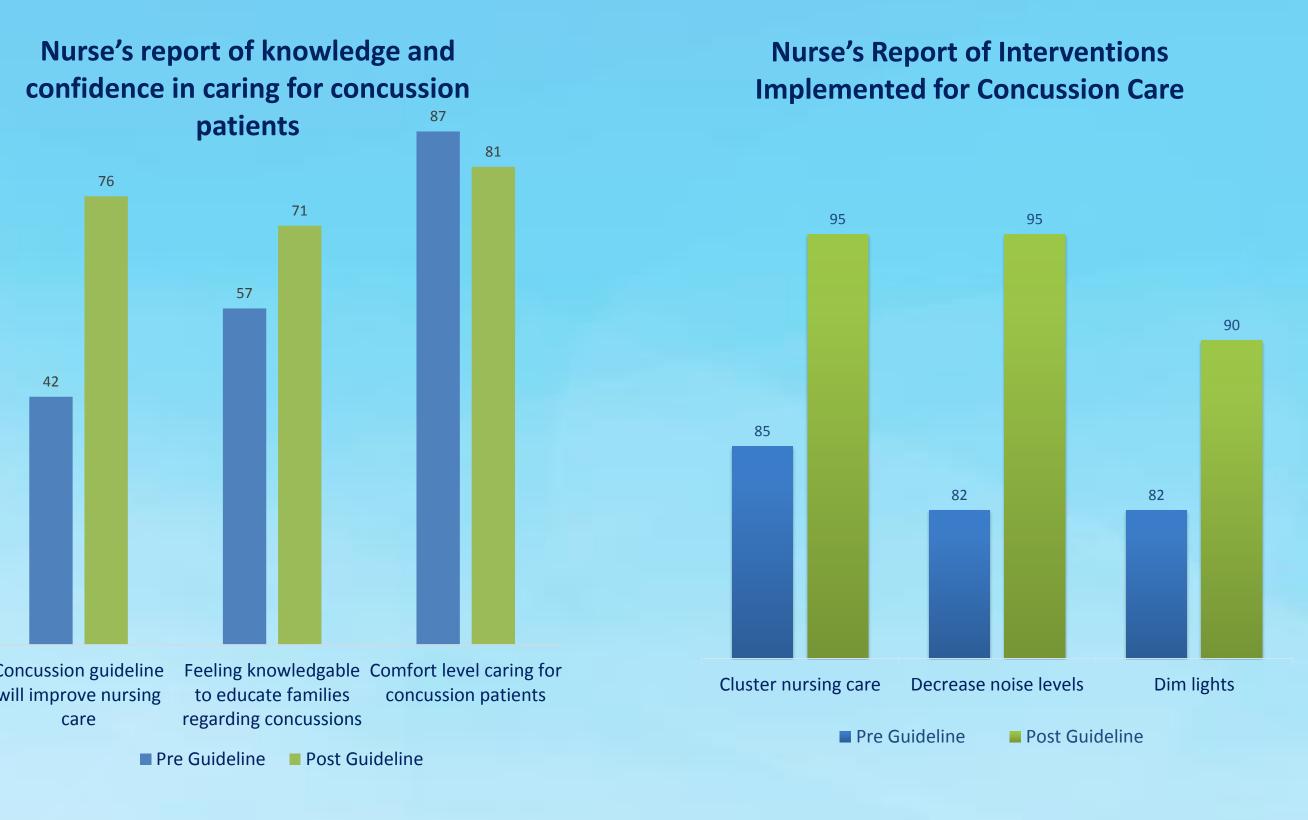
Limit noise /provide earplugs Limit use of smaller screens for TV /

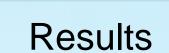
Suggested limit cell phone use / video Suggested limit texting to 10 -20 minutes

Consult to Occupational Therapy for ncussion scree



## patients





# guideline for concussions.

- Decrease in nurses that felt comfortable caring for patients with a concussion. Could be attributed to higher percentage of nurses in post survey with less than 2 years experience.
- Next steps

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- Symptom assessment and intervention documentation request in EPIC • While some symptoms are currently present in EPIC, they are not grouped together.
- Monitoring documentation compliance
- Follow up with individual RN's to achieve 100% education completion
- rate \_\_\_\_

## Results

### Outcome

- Nurses report through survey that they are implementing recommended interventions after education and implementation of a
  - Increase in percentage of nurses that feeling knowledgeable to provide education to patients and families about concussion care.
  - Interventions currently need to be free texted

Provide education on concussion in orientation.

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