



College of Nursing

Introduction

- The current policy for post-operative vital signs (VS) assessment is time consuming, inefficient, causes undue patient distress, and is not evidence-based.
- VS are poor indicators of patient deterioration in children.
- Evidence gap regarding the need for and frequency of VS assessments.

Purpose

- Purpose: Implement evidence-based PEWS tool to detect clinical deterioration in pediatric post-op patients, simultaneously improving nursing satisfaction by improving assessment efficiency
- Objective #1: Implement PEWS to accurately assess postoperative patients' clinical status 80% of the time.
- Objective #2: Implement PEWS resulting in at least 80% increased nursing satisfaction.
- Objective #3: Decrease the number of unplanned postoperative PICU admissions with the use of PEWS.

Methods

- Project was deemed not human subjects research
- Setting: Pediatric Med-Surg Unit with 11 admitting services
- Population: Pediatric post-operative patients managed by the Pediatric Surgery Team

Objective #1:



Objective #2:



Objective #3:



Implementing PEWS in Pediatric Post-Operative Patients Maja Campbell, BSN, RN, CPN, PNP-DNP Student University of Iowa Stead Family Children's Hospital

Outcomes

Objective #1: Accurate PEWS Assessments 80% of the Time



Objective #2: Improve Nursing Satisfaction by 80%

Nursing Satisfaction: Effectiveness, Efficiency, Ease of Communication



Strongly Disagree or Disgree

Undecided

Objective #3: Decrease PICU Admissions

PICU ADMISSIONS



3 MONTHS PRIOR TO IMPLEMENTATION



- Total: 30 PEWS Tracking Sheets
- Completed Assessments (26)
- Discarded Assessments (4)

Agree or Strongly Agree

Objective #1:

Objective #2:

- Effectiveness (100%)
- Efficiency (98%)

Objective #3:

Accomplishments:

- maintained patient safety.

Plans for the Future:

- monitoring
- patients

- the ward. Paediatric Nursing, 22(4), 28-32.
- 10.1542/peds.2009-0338
- doi: 10.1016/j.jcrc.2006.06.007
- system scores. Pediatric Nursing, 41(4). 165-174. validation. Worldviews on Evidence-Based Nursing, 14(3), 175-182. doi:10.1111/wvn.12223

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3 MONTHS DURING IMPLEMENTATION



Evaluation

86% of PEWS assessments completed Phase 1: No safety or patient deterioration events: PEWS safety neither proven nor disproven. • Phase 2: No safety events. Increased PEWS scores correlated with abnormal VS.

• Nursing satisfaction increased in the areas of: Ease of Communication (90%)

 Unplanned post-operative PICU admissions decreased from two (prior) \rightarrow zero (during).

Conclusions

• PEWS tool implemented for post-operative patients with

• L9 nursing satisfaction improved with improved workflow efficacy, efficiency and ease of communication.

• Potential policy change for post-operative patient

Add PEWS to routine assessments for all non-ICU

References

1. Oliver, A., Powell, C., Edwards, D., & Mason, B. (2010). Observations and monitoring: Routine practices on

2. Kuiken, D., & Huth, M. (2013). What is 'normal?' Evaluating vital signs. Pediatric Nursing, 39(5). 216-224. 3. Akre, M., Finkelstein, M., Erickson, M., Liu, M., Vanderbilt, L., & Billman, G. (2010). Sensitivity of the pediatric early warning score to identify patient deterioration. Pediatrics, 125(4), e763-e769. doi:

4. Duncan, H., Hutchison, J., & Parshuram, C. (2006). The pediatric early warning system score: A severity of illness score to predict urgent medical need in hospitalized children. Journal of Critical Care, 21, 271-279.

5. Monaghan A. (2005). Detecting and managing deterioration in children. *Paediatric nursing*, 17(1), 32–35. https://doiorg.proxy.lib.uiowa.edu/10.7748/paed2005.02.17.1.32.c964

6. Murray, J., Williams, L., Pignataro, S., Volpe, D. (2015). An integrative review of pediatric early warning

7. Iowa Model Collaborative. (2017). Iowa model of evidence-based practice: Revisions and