Improving Student Critical Thinking Skills through a Root Cause Analysis (RCA) Pilot Project

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Presentation Overview

- Introduction (Nursing Education)
- Root cause analysis (RCA) defined
- Overview of Current State
- RCA project outline & A3 tool
- RCA exemplar
- Evaluation
- Refinements for Future Implementation
Nursing Education

- Equip students with skills necessary to provide optimal patient care
- Essentials toolkit: participation in RCA
Root Cause Analysis (RCA)

- Process for determining what, how, & why?
- Identify ‘root’ causes of a problem to prevent recurrence
- CQI foundation
- TJC mandate for sentinel event follow-up
Current State

• Leadership & Management course
  – Inability to ensure certain ‘experiences’
  – previous RCA case based

• Needed elements of critical thinking:
  – Defining a problem contextually
  – Maintaining an open attitude of inquiry
  – Learning to ask circular rather than linear questions
  – Examining underlying assumptions and making theoretically based hypotheses
  – Reflexively examining the situation prior to drawing conclusions
  – Deciding what to believe and do
  – Evaluating hypotheses, assumptions, and interventions (Cox, 1998, p.41)
Current State (cont.)

• Purpose: provide a ‘real-time’ RCA experience for students
  – Develop data plan
  – Identify current status (i.e. data analysis)
  – Provide recommendations to impact practice

• Partnership with the Health System
RCA Process

• Unit Requirements
  – Identify unit liaison
  – Access to staff, patients, records
• RCA SON team membership
  – SON faculty lead
  – 5 RN students
• Unit specific issue
1. Background overview
   - initial meeting
   - weekly SON RCA team meetings

2. Data collection and synthesis
   - multiple methodologies (unit specific)
   - data plan incorporated all shifts

3. Evaluation and Recommendation
   - Data synthesis
   - Presentation and A3
A3 Problem solving Tool

• Lean Tool used to take a closer look at work
  – Reduce waste
  – Reduce errors
  – Improve quality
• Identify areas for improvement
• A3 refers to the size paper used with this tool
Title: Nursing Pain Reassessment Compliance

Issue:
Noncompliance with comfort care assessment and documentation on pediatric unit

Background:
-A chart audit revealed a trend in decreasing pain reassessment documentation.
-Discharge surveys reflected that pain was well controlled during hospitalization, but documentation did not reflect this.
-Policy states “Pain is assessed on an ongoing basis per patient’s condition and response to treatment.”
-High number of patients on unit experience pain, pain assessment is complex in the pediatric population.
-Documentation of pain assessment and reassessment provides written record of practice.

Current state:
-Comfort care rounds performed and documented hourly. Rounds include assessment of 4 P’s: pain, potty, play, position.
-Current problems: documentation does not reflect full compliance with practice standard.
-Chart audit indicated only 68% compliance of documentation of Comfort Rounds, 2% compliance of pain documentation, 3% of position documentation, 46% of documentation of I&O’s, 3% play documentation and 83% of staff addressing comfort.

Target Condition:
-Documentation in full compliance
-Documentation congruent with pt. reports
-Documentation in timely manner
-Clear explanation of expectations of RN
-Consistency throughout unit’s documentation

Recommendation Plan:
-Regular education; what comfort rounds are, importance, suggestion of ways for achieving compliance
-Create a script for asking questions by June 1st, 2009
-Education for new hires during orientation
-Clearly distinguish expectations
-Initiate a part of the admit assessment for admission nurse to explain to families that comfort rounds will be performed every hour and why it’s important and not just to “bug” them by June 1st, 2009.
-Revisions to flow sheet to better reflect importance of Comfort Care Rounds (include section for play under position); rough draft completed by June 1st 2009.
-Develop incentive programs designed to recognize perfect charting (with follow-up chart audits)
-A script or set variety of ways to ask questions by June 1st 2009.

Next steps:
-Continue to perform chart audits periodically after implementation (Ex: every 6 months)
-Survey nurses on their perception of effectiveness and competence
-Provide continued opportunity for feedback from nurse (Ex: in staff meetings)
RCA Project Evaluation

• Unit liaison
  – Overall satisfaction with end product
  – Value of product on unit
  – Expectation of implementing one of the recommendations
  – Willingness to have another RCA team

• Students
  – How interested in project
  – Valuable experience

• 10 point Likert scale
1. When you first heard about this project how interested were you?

2. Now that you have finished this project how valuable was the experience?

- positive shift upon completion of project
Unit Feedback

1. On a scale of 1 to 10, how satisfied are you with the product (A3/PowerPoint) you received from the students upon completion of the RCA?

2. I anticipate implementing one or more of the recommendations.
3. This work was valuable to the unit

Rating (1=strongly disagree, 10=strongly agree)

4. I would be willing to work with another student group like this.

Rating (1=strongly disagree, 10=strongly agree)
Future Revisions to the Project

- Additional 15 RCA teams have been deployed over the last year
- Continued focus on nurse sensitive indicators or specific unit issue
- Implementation plans also completed for the project
- Positive student feedback
QUESTIONS??

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