From the Students Perspective: Analysis of Graduate Nursing Students Quality Improvement (QI) Learning Outcomes Using Reflective Strategies

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**PURPOSE**
- Evaluate student reflective learning outcomes from convenience survey distribution.
- Identify key QI curriculum components that are still being used in participants clinical practice.

**METHODS**
- Descriptive study, Likert -54 Item Survey (Qualtrics), convenience sample
  - Alumni/Current students
  - Participant Rate – 27.5 % (25/110)
- Email Distribution to those who completed QI standalone Distance Education Course over 5 years (2014-2018)
- IRB Approved Study
- Modified Kovner, et al Survey Tool

**BACKGROUND**
- Medical Errors 3rd Leading Cause of Death
- Need nursing programs to implement QI/Patient (Pt) Safety Change Projects:
  - More nurses with QI skills
  - Implementing system-level changes
- Document Dartmouth QI Microsystems Framework in standalone Distance Education MSN Leadership QI Course:
  - QSEN/Dartmouth Framework application
  - Conduct changes projects in clinical space
- Document Curriculum/Teaching Methods

**QI COURSE TEACHING METHODS:**

<table>
<thead>
<tr>
<th>Components (QI)</th>
<th>Methods</th>
<th>Topics</th>
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</thead>
<tbody>
<tr>
<td>Principles (*Knowledge)</td>
<td>QSEN, Pt Safety Goals, QI Principles (PDSA)</td>
<td>Competencies, Evidence-Based Practice</td>
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<tr>
<td>Experiential Learning (*Skills)</td>
<td>Discussion Boards, Team Activities, Dartmouth Microsystems Framework, QI Change Project</td>
<td>Root Cause Analysis, Health Systems, Team Science, Conduct Change, Tools/Metrics</td>
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**Survey:** Preparation and Usefulness of Quality Improvement Topics from Nursing Education Program *

Survey Tool Themes based on RQ’s:

- **RQ 1:** Were students able to apply skills in finishing QI Change Project?
- **RQ 2:** Did course provide valuable knowledge (in course and now)?
- **RQ 3:** What did students learn about QI tool application during QI change projects? (Flowcharting/Fishbone, PDSA, Metrics)
- **RQ 4:** Did Dartmouth Microsystems Framework curriculum provide a useful process to conduct a change project?

**RESULTS**

- Standalone DE QI Course had positive impact to learning skills, and building QI interprofessional teams (83%, 20/24)
- Majority of participants (86%, 19/22) reported QI change projects improved Direct Care, Patient Flow, Practice
- Last 12 months, based on course, students applied QI methods at least 1/month (83%, 20/25)
- MSN QI Course/Dartmouth Framework useful for practice

**REFERENCES**

- Dartmouth Microsystems Academy, Knowledge Center, Curriculum http://clinicalmicrosystem.org/knowledge-center/publications/

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