DOES A MODIFIED TEAMSTEPPS® ONLINE EDUCATIONAL INTERVENTION CHANGE NURSING STUDENTS’ ATTITUDES?

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NERC April 2018
BACKGROUND

- RN to BSN students ready?
- Ineffective teamwork errors
- Influences:
  - Essentials of a Baccalaureate Education
  - QSEN
  - Future of Nursing Report
  - The Joint Commission
TEAM STEPPS®

Team Strategies and Tools to Enhance Performance and Patient Safety

- Teamwork
- Leadership
- Communication
- Situational Monitoring
- Mutual Support
Many studies in the literature support the positive impact of this patient safety program in patient care settings.

Can TeamSTEPPS® be applied to nursing students in the online, academic setting?

There is a critical need for patient safety content in online nursing education courses.

RN to BSN programs increasing
AIM

Pilot study -> Implement an online, modified TeamSTEPPS® educational intervention -> Measure any change in nursing students’ attitudes -> patient safety
METHODS

• The study design:
  • pretest-educational intervention-posttest survey.
• A convenience sample
  • 11 pre
  • 7 post
  • online RN to BSN nursing students within 1 SON

• TeamSTEPPS® Teamwork Attitudes Questionnaire tool (T-TAQ)
• Descriptive statistics & independent samples t-test
EDUCATIONAL INTERVENTION

- Reviewed & customized the standard TeamSTEPPS® curriculum
- Hyperlink using Microsoft Office PowerPoint slide presentation and Kaltura Capture Space
- Video ~35 minutes
- All 5 core competencies were reviewed
- Compared to the traditional face-to-face, 6-hour workshop
### Teamwork Attitudes Questionnaire (T-TAQ)

**TeamSTEPPS® Instructor Manual**

**Instructions:** Please respond to the questions below by placing a check mark (✓) in the box that corresponds to your level of agreement from **Strongly Agree** to **Strongly Disagree**. Please select only one response for each question.

<table>
<thead>
<tr>
<th>Team Structure</th>
<th>Strongly Disagree</th>
<th>Disagree</th>
<th>Neutral</th>
<th>Agree</th>
<th>Strongly Agree</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. It is important to ask patients and their families for feedback regarding patient care.</td>
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<td>2. Patients are a critical component of the care team.</td>
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<td>3. This facility’s administration influences the success of direct care teams.</td>
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<td>4. A team’s mission is of greater value than the goals of individual team members.</td>
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<td>5. Effective team members can anticipate the needs of other team members.</td>
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<td>6. High performing teams in health care share common characteristics with high performing teams in other industries.</td>
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<td><strong>Leadership</strong></td>
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<table>
<thead>
<tr>
<th>Subscale</th>
<th>Pre-Education T-TAQ Mean</th>
<th>Post-Education T-TAQ Mean</th>
<th>P-value</th>
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<tbody>
<tr>
<td>Communication</td>
<td>4.45</td>
<td>4.80</td>
<td>.000*</td>
</tr>
<tr>
<td>Leadership</td>
<td>4.54</td>
<td>4.78</td>
<td>.176</td>
</tr>
<tr>
<td>Team Structure</td>
<td>4.34</td>
<td>4.73</td>
<td>.038*</td>
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<tr>
<td>Mutual Support</td>
<td>4.54</td>
<td>4.83</td>
<td>.104</td>
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<tr>
<td>Situation Monitoring</td>
<td>4.46</td>
<td>4.80</td>
<td>.049*</td>
</tr>
</tbody>
</table>
CONCLUSION

• The findings of this study demonstrate that online nursing students’ attitudes towards patient safety can be improved with an educational intervention based on the TeamSTEPPS® program.

• These positive results can be used by nursing educators considering patient safety content for undergraduate curriculum. Changing and updating curriculum in academia is often a long, drawn-out process that can take up to several years.

• By simply creating and incorporating a Patient Safety Learning Module based on TeamSTEPPS® into an online course is an easy, efficient workaround; while waiting to develop a new online patient safety course and to get it through the lengthy approval process.


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