An Interprofessional Web-Based Approach to Critical Care Education: Development and Financial Impact

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Disclosure Statement

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Learning Objectives

- The learner will be able to identify the interprofessional process of creating a website for online education for clinical orientation and continuing education
- The learner will be able to recognize the importance of online access for evidence-based education in promoting quality and safety for critically ill patients.
Purpose

To create a web page to be used for the online clinical orientation and continuing education of nurses in three specialized critical care units in a non-profit community hospital.
Rationale for Web Page

• Identified need for evidence-based educational content for orientation of newly hired critical care nurses

• Identified need for a method of continuing education for critical care staff nurses

• Identified that the current face-to-face orientation, and purchased on-line critical care courses, were time consuming and expensive.
Rationale for Web Page

• Identified need to address the various levels of experience of critical care nurses
  > Experienced critical care nurses
  > Experienced non-critical care nurses
  > Graduate nurses

• Identified need to provide an opportunity for periodic remediation of educational content for nurses currently working in Critical Care.
Process

• Formed an interdisciplinary team
• Surveyed the management team and Critical Care staff
• Constructed a prototype of proposed website
• Obtained administrative approval for purchase of a unit-specific portal:
  > Security
  > Off-site access
Process

Examined current hospital learning management system for:

• Compatibility with web page
• Off-site access
• Testing capabilities
• Creation of reports for Critical Care Educator and employee files
Pre-Hire Online Assessment

• Clinical Competence
• Personality and Attitude
• Interpersonal Skills
• Critical Thinking

*Management team reviews all assessments, prior to orientation, to determine content areas that may require remediation.
Content Modules

Interdisciplinary team members created modules that reflected their area of expertise

Module format included:

- PowerPoint, Word documents & Video narration

Module content included:

- Evidence-based policies and procedures
- Evidence-based references
- Resource links
- Photographs, illustrations, video clips
Testing Program

- On-line quiz at completion of each educational module
- Obtained Administrative Approval to purchase additional testing program to supplement current learning management system:

Rationale:
- Immediate scoring
- Generation of online report for each exam:
  - date exam was taken
  - length of time for quiz for completion of each module
  - generation of record of performance for each employee
Financial Impact

• Previous online orientation educational model

  >$2,000 year licensing fee
  >$2,140.00--$3,400.00
  
  (60-100 hrs. per orientee)
Financial Impact

- Average number of clinical hours spent with preceptor:
  > 320-640 hours
  > Average cost = $16,254.00/person
Financial Impact

• In 2011, 15 people completed orientation: $32,000.00

• Orientation of only 3 graduate nurses resulted in a cost of: $48,762.00
Quality and Safety

- Interprofessional collaboration
- Evidence-based content
- Orientation management
- Continuing education for staff nurses in units
- Remediation for staff nurses in units
- Monitoring of clinical competencies
- Monitoring of professional certifications
- Consistent standard of nursing education for critical care nurses


