

Evaluation of Critical Care Telemedicine Nursing Interventions on Patient Outcomes, Professional Practice and Organizational Processes

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Telemedicine=Access



What is an eICU?



Purpose

- What are the triggers that prompt an intervention?
- What interventions are being made by nurses?
- What is the impact of the interventions on patient outcomes?

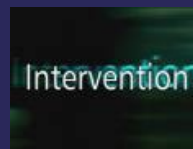


Methods

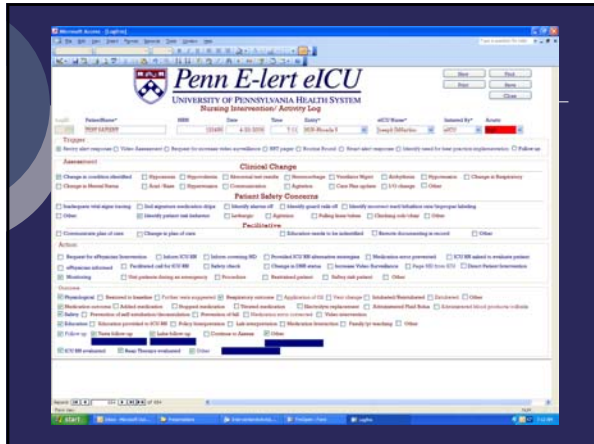
- Workflow observation
- Historical review of documented interventions
- Revisions based on staff input



Definition



- any action which prompts communication between the remote ICU and the bedside caregiver

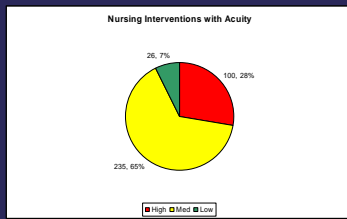


Results

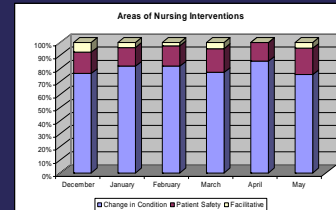
- o Categories:
 - Physiologic
 - Safety
 - Process (facilitative)
- o Triggers:
 - software program (77%)
 - Routine rounds
 - Request from bedside caregiver



Patient Outcomes



Patient Outcomes



Professional Practice



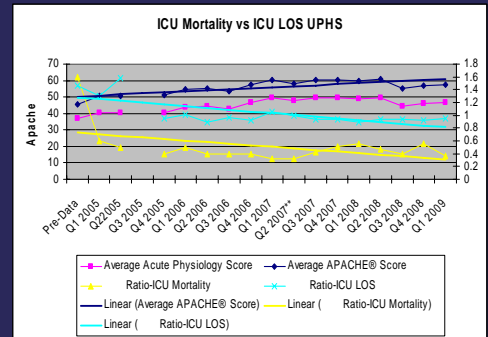
- o Clarifies role of eICU nurse and impact on patient outcomes
- o Provides evidence to delineate role of telemedicine nurse and how it differs from the bedside practitioner
- o Improved collaboration between eICU nurse and bedside staff
- o AACN recognition of clinical practice to support CCRN

Organizational Processes

- Enhanced eICU staffing
 - Increase best practice surveillance
 - Increase fall risk surveillance
 - Second signature for high risk medications
- o Supports utility of telemedicine at UPHS

Results

- o Nursing interventions with old system of narrative notes
 - 163 documented intervention for 2008
- o Nursing interventions with new tool
 - 762 documented interventions in the first six months



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