

A Multi-Modal Educational Intervention Design to Improve Delirium Recognition by Nurses

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Purpose

Evaluate the effectiveness of a multi-modally designed educational intervention for MICU nurses to improve their knowledge & skills regarding delirium & delirium recognition.

Background

- Delirium under-recognition increases morbidity and mortality for patients
- CNS noted discrepancies/errors in RNs performance of CAM-ICU delirium screening
- CNS-designed intervention to improve knowledge/skills of delirium screening based on integrative literature review

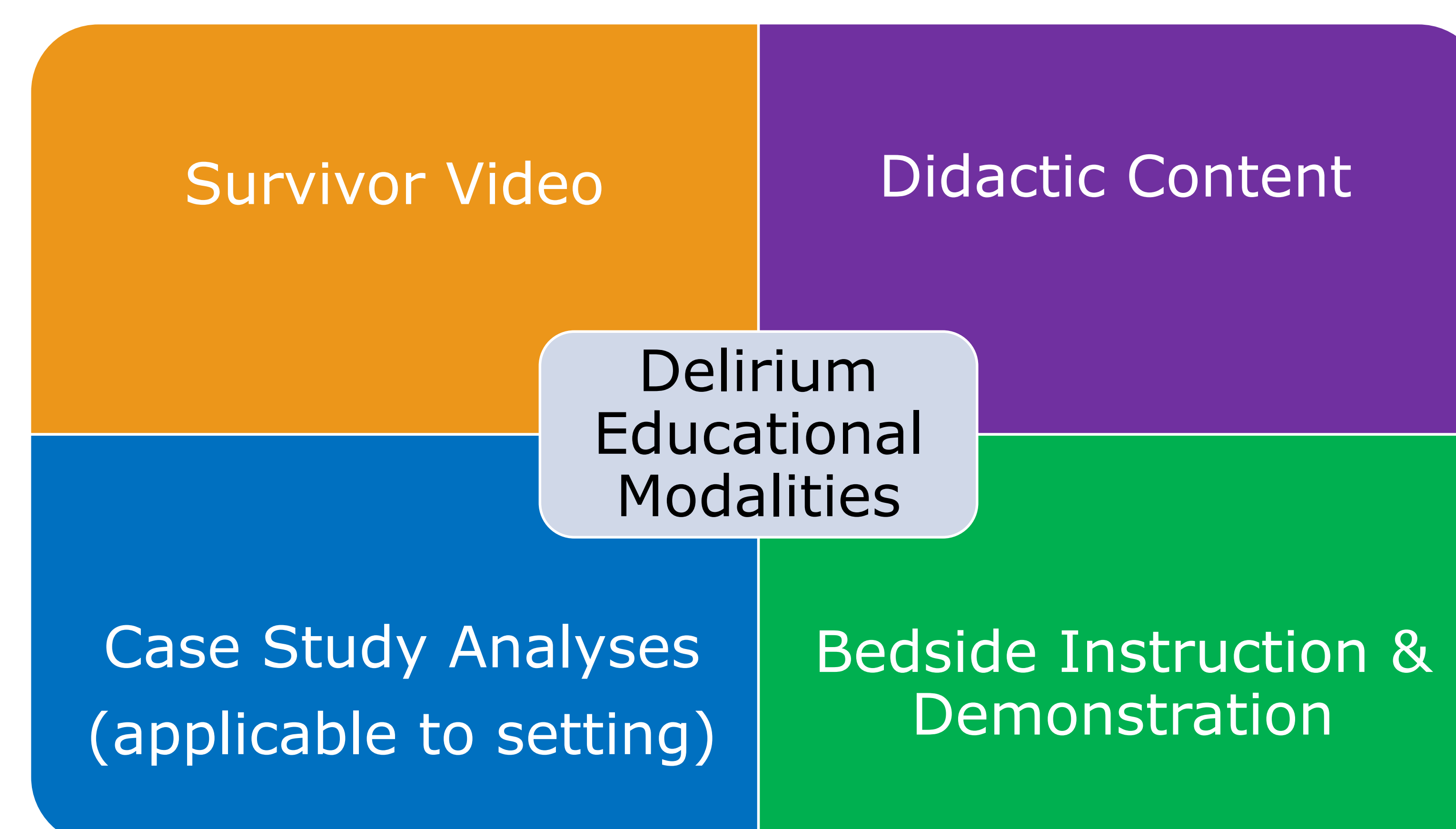
Evaluation/Methods

- Education design incorporated structured plan of instructive content, case reviews, insight into patient experiences, & patient assessments performed bedside
- Sessions conducted in small groups of 2-3 RNs
- Pre/post evaluation with paired t-tests of Nurses' Delirium Knowledge Assessment & after education observations of screening procedure by CNS.

Implications

- CNS-designed educational programs for delirium can increase staff RN knowledge of delirium
- Multi-modal design addresses various learning styles of several demographic groups of nurses
- Design should be adjusted to unit/practice setting/patient population for content & case study analyses

Figure 1: Delirium Educational Design



Outcomes

- 34 matched pair assessments; 55.9% BSN-prepared; 58.8% 1-5 years of experience
- Overall and knowledge sub-scale mean differences statistically significant ($p < .001$)
- No statistical difference found between demographic groups using comparative statistics
- CAM-ICU performed procedurally correct by 79% of participants post-intervention

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Table 1: Overall Mean Score Comparisons of Nurses' Delirium Knowledge Assessment Scores for Demographic Groups

Demographic	Overall Mean Score of NDKAs		p value
	Pre	Post	
Years of Experience			
1-5	76.5%	81.1%	.534*
6-15	78.0%	80.0%	
≥ 16	71.0%	78.6%	
Educational Preparation			
BSN	75.3%	80.7%	.708**
MSN	77.1%	81.5%	

Diploma/ADN excluded from analysis.

* Kruskal-Wallis H-statistic. **Independent t-statistic