

doi: 10.4081/gc.2026.14859

SUPPLEMENTARY MATERIAL

Evaluating the efficacy of a delirium educational program for medical-surgical nurses

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Key words: delirium education, nurses, nursing knowledge, non-critical care, multi-modal education.

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Vassar Brothers Medical Center SWOT ANALYSIS



Strength

- Screens all admitted patients for delirium using the Short CAM tool
- Non-pharmacological delirium intervention (Early mobility, family involvement)
- HealthStream e-learning system



Weakness

- Lack hospital-based gerontologist collaboration
- Influx of nurse turnover
- Fewer experienced nurses on staff
- Lack standardized delirium education training with a checklist



Opportunity

- Implement an evidence-based delirium educational practices
- Educate staff on effective use of CAM screening tool
- Increase nurses' knowledge and confidence in identifying delirium risk factors



Threat

- Covid- 19 resurgence
- Competing organizational mandatory educational opportunities
- Nurses time constraints due to daily nursing task priorities
- Union influence on educational engagement opportunities

Figure 1. SWOT analysis.

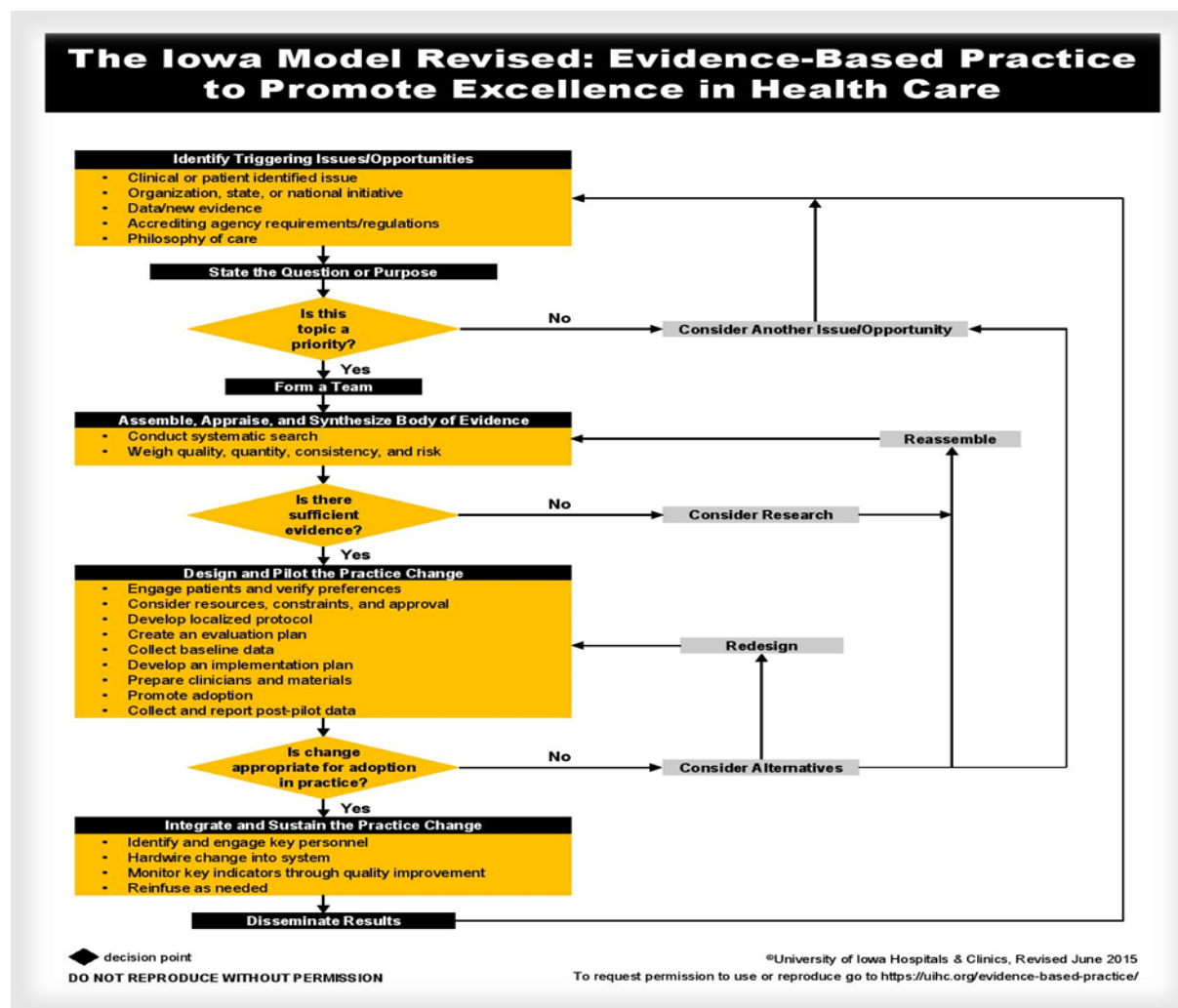


Figure 2. Iowa Model Evidence-Based Practice. Reproduced from Iowa Model Collaborative (2017), with permission from the University of Iowa Hospitals and Clinics.

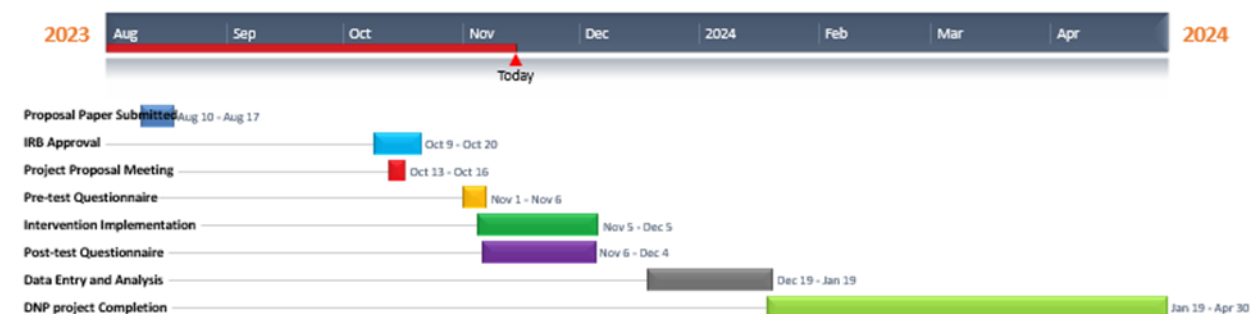


Figure 3. Gantt chart of timeline.

		n	Mean Rank	Sum of Ranks
Post-assesmsent scores - Preassessment score	Negative Ranks	4	2.63	10.5
	Positive Ranks	18	13.47	242.5
	Ties	0		
	Total	22		

▪ Negative Ranks: Post-assesmsent scores < Preassessment score ▪ Positive Ranks: Post-assesmsent scores > Preassessment score ▪ Ties: Post-assesmsent scores = Preassessment score		W	z	p	r
Post-assesmsent scores - Preassessment score		10.5	-3.77	<.001	0.8

Figure 4 . Wilcoxon-signed-ranked test. The pre-assessment scores group had lower values ($Mdn=24$) than the post-assessment scores group ($Mdn=28.5$). The null hypothesis that the variable post-assessment scores have a smaller or equal value compared to the variable pre-assessment scores was tested using the one-tailed t-test for paired samples. The result was statistically significant, $W=10.5$, $p = .001$. The null hypothesis was rejected.

NDKA Total Score

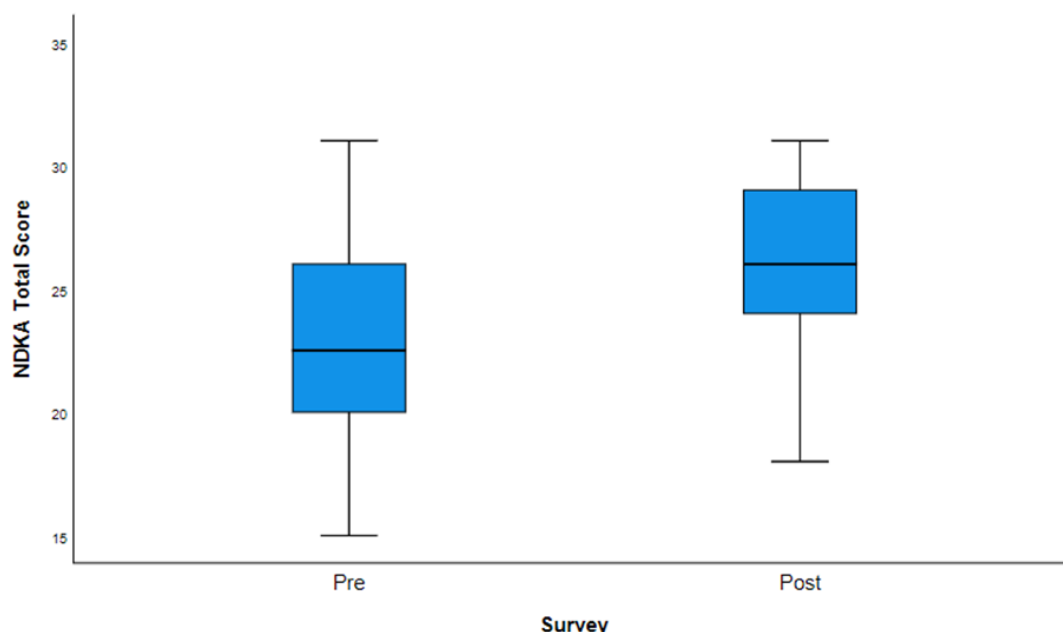


Figure 5. Box-plot graph. The boxplot shows the spread of increased Nurses' Delirium Knowledge Assessment scores from the pre-and post-assessment surveys.