#### University of Vermont

#### **UVM ScholarWorks**

College of Nursing and Health Sciences Doctor of Nursing Practice (DNP) Project Publications

College of Nursing and Health Sciences

2022

## The Vermont Safe Infant Sleep Project: Evaluation of an Online Learning Module

Brigid Meehan-Brese University of Vermont

Jean Pelski PhD, APRN, NNP-BC University of Vermont

Follow this and additional works at: https://scholarworks.uvm.edu/cnhsdnp

Part of the Maternal, Child Health and Neonatal Nursing Commons, Pediatric Nursing Commons, and the Public Health and Community Nursing Commons

#### **Recommended Citation**

Meehan-Brese, Brigid and Pelski, Jean PhD, APRN, NNP-BC, "The Vermont Safe Infant Sleep Project: Evaluation of an Online Learning Module" (2022). *College of Nursing and Health Sciences Doctor of Nursing Practice (DNP) Project Publications*. 103.

https://scholarworks.uvm.edu/cnhsdnp/103

This Project is brought to you for free and open access by the College of Nursing and Health Sciences at UVM ScholarWorks. It has been accepted for inclusion in College of Nursing and Health Sciences Doctor of Nursing Practice (DNP) Project Publications by an authorized administrator of UVM ScholarWorks. For more information, please contact <a href="mailto:schwrks@uvm.edu">schwrks@uvm.edu</a>.



# The Vermont Safe Infant Sleep Project: Evaluation of an Online Learning Module

Brigid J. Meehan-Brese DNPc, RN Rosemary Dale Ed.D, APRN / Jean Pelski PhD, APRN, NNP-BC / Julie Parent MSW

# Background

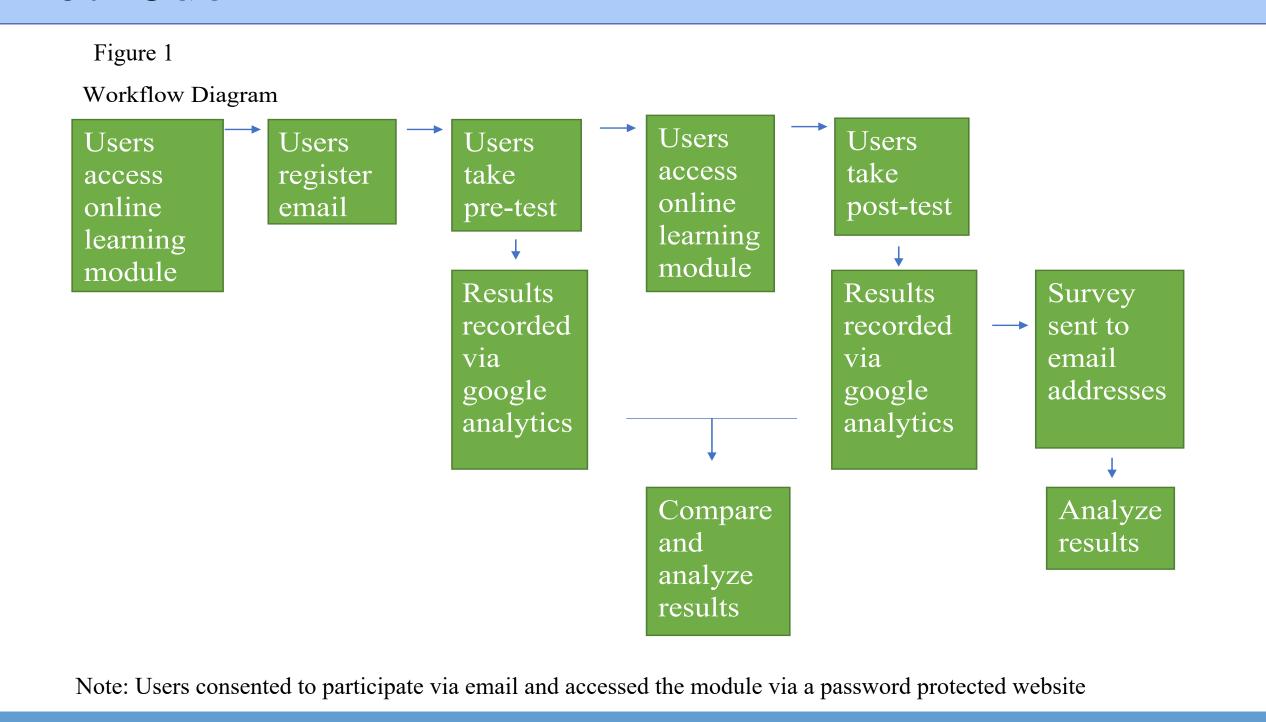
The Vermont Safe Infant Sleep Project is a multi-phased effort focused on the development, implementation, and standardization of evidence-based best practice recommendations regarding safe infant sleep through an online learning module for registered nurses and maternal child health educators working with newborn infants in Vermont birthing hospitals.

- Sudden unintended infant death syndrome (SUIDS) is a leading cause of mortality for infants 28 days to 11 months. Of those deaths, accidental suffocation and strangulation in bed (ASSB) deaths are currently the third leading cause of postnatal deaths in the U.S., with a rate of 22.1 deaths per 100,000 live births in 2018 (CDC, 2021).
- 86.3% of Vermont infants were placed on their backs to sleep (Vermont Infant Safe Sleep: Environmental Scan, May 2017)
- 1 in 4 or 25% of Vermont families practice bed-sharing (Vermont Infant Safe Sleep: Environmental Scan, May 2017)

# Project Aims

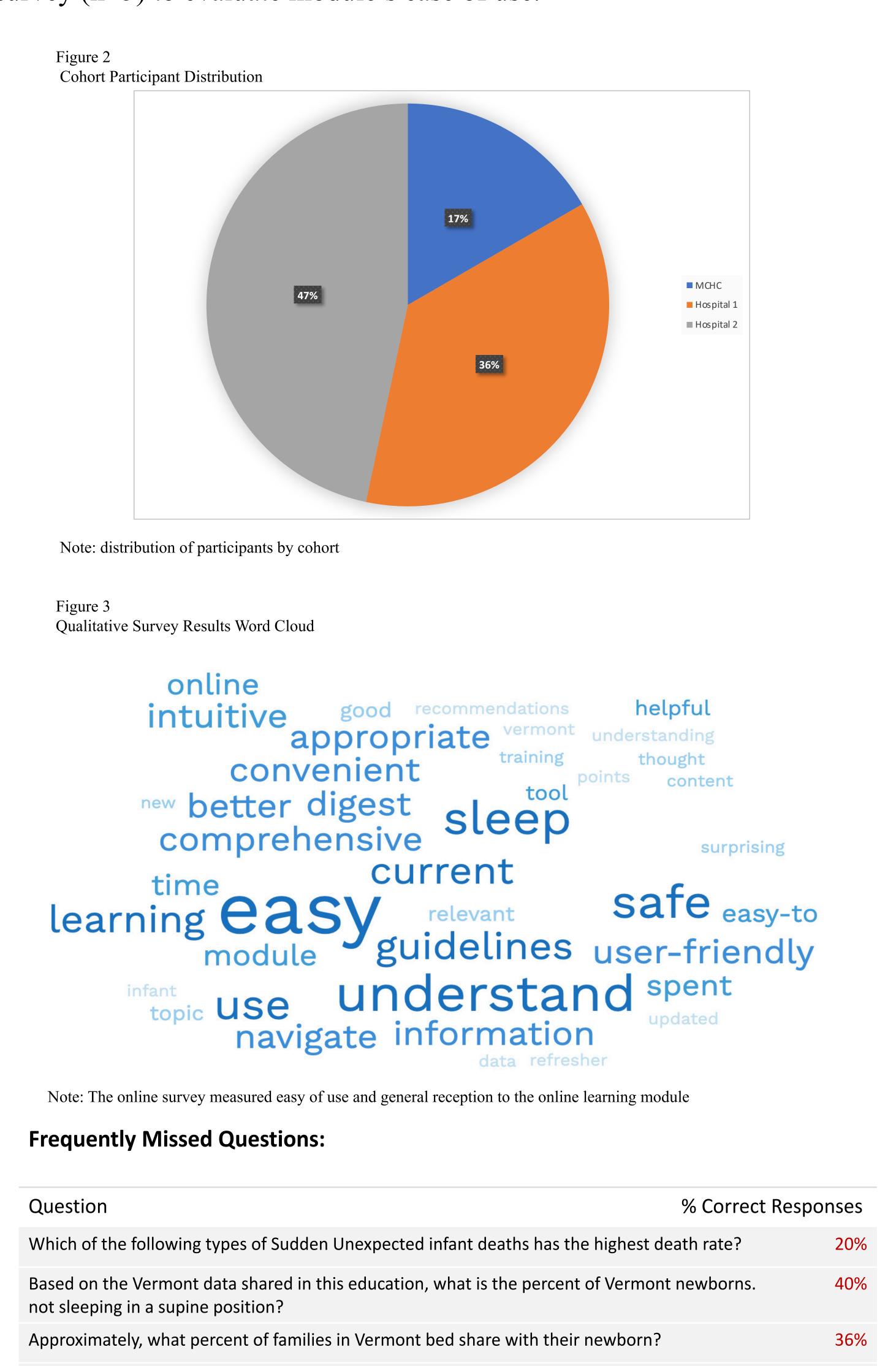
- Global aim: To influence the infant mortality rate by reducing the incidence of ASSB for Vermont infants by 5% over the next five years.
- Primary aim: To evaluate a standardized online learning module for registered nurses and for maternal-child educators who work with infants and families in the state of Vermont.
- The secondary aim: To evaluate the ease of use of the online learning module.

# Methods



### Results

This project utilized a mixed methods approach to collect data from 30 individuals including, maternal child health coordinators (MCHC) working with a state agency, and labor and delivery nurses working in two Vermont community hospitals. Participants registered for and completed the online learning module with a pre-test (n=30) and post-test (n=25) and an online survey (n=5) to evaluate module's ease of use.



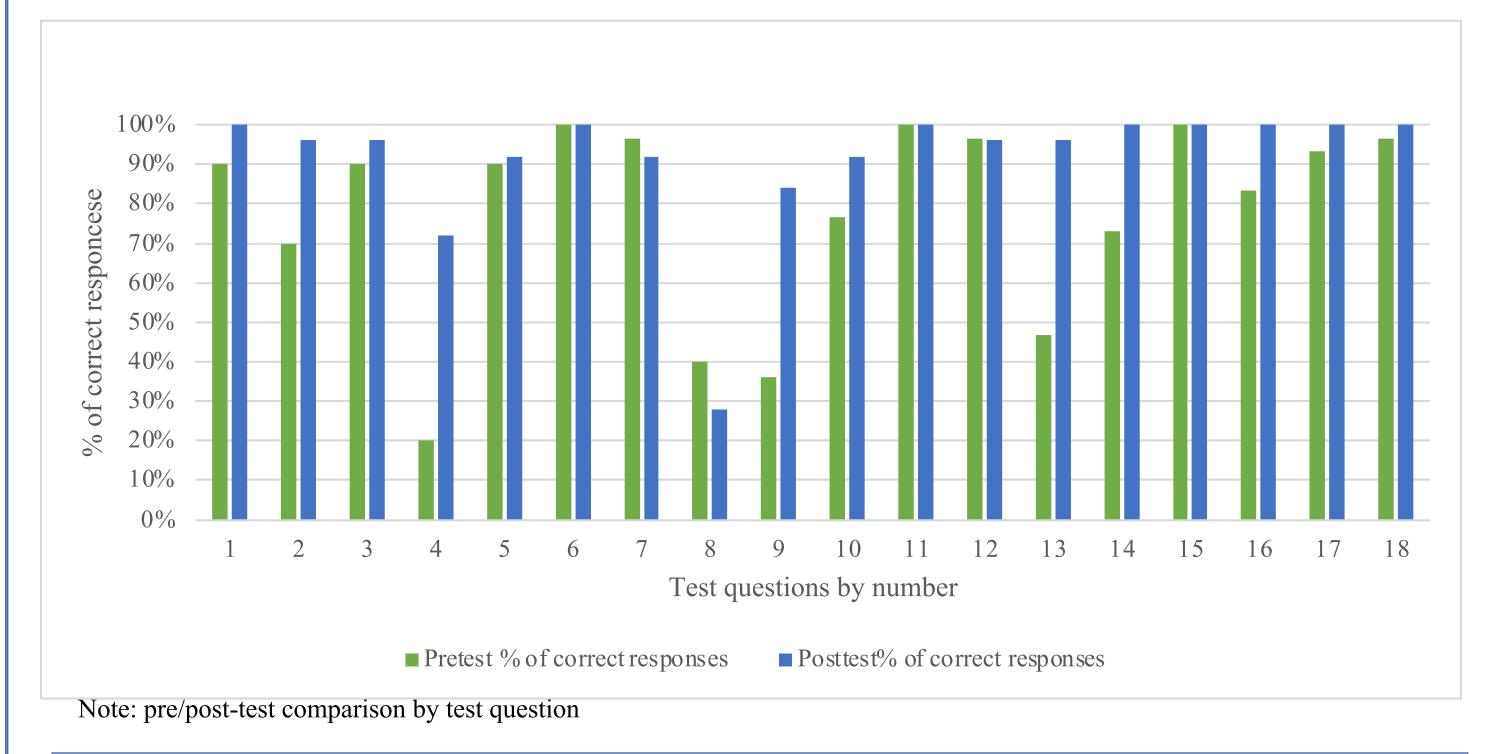
Which of the following guidelines from the AAP (American Academy of Pediatrics, 2016) is not

Level A evidence?

- Pre-test scores averaged 14/18 or 77% questions answered correctly.
- Post-tests averaged a score of 16.4/18 or 91% questions answered correctly.
- 17% post-test score improvement after module completion.

Figure 4

A comparison of the % of correct responses before and after the online training module



### Conclusions

- Nurses and MCHS's have a knowledge gap around the causes of SUID, with 80% of participants answering incorrectly prior to the module.
- Nurses and MCHS's have a knowledge gap about Vermont specific data with 58% of participants missing these questions prior to the training.
- The Vermont Safe Infant Sleep online learning module has demonstrated its ability to identify learning deficits, close educational gaps, and increase baseline knowledge. A 17% improvement is scores was observed post training.
- The online learning module had a 100% positive reception, results indicate ease of use and flexibility for the professionals completing the module.

### References

46%

CDC, C. D. C. (2021, April 28). Sudden Unexpected Infant Death and Sudden Infant Death Syndrome: Data and Statistics. Centers for Disease Control and Prevention. Retrieved September 26, 2021, from https://www.cdc.gov/sids/data.htm.

Vermont Vital statistics. (April 2017) <a href="https://www.healthvermont.gov/sites/default/files/HSVR\_injury\_SUID.pdf">https://www.healthvermont.gov/sites/default/files/HSVR\_injury\_SUID.pdf</a>

Vermont infant safe sleep: Environmental scan. (May 2017). <a href="https://www.healthvermont.gov/sites/default/files/documents/pdf/CYF">https://www.healthvermont.gov/sites/default/files/documents/pdf/CYF</a> SS JSI env scan.pdf