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Developing a Transition to Practice Program to Enhance Neonatal Nurse Expertise

Megan Zerillo, DNP, RN

Ida V. Moffett School of Nursing, Samford University, Birmingham, AL, USA

LOCAL PROBLEM

Research has shown there is an identified lack of neonatal nursing knowledge of new graduates as they enter a unit caring for a specialty population. Most novice NICU nurses have little to no nursing school or clinical experience to prepare them for the high stakes care of critically ill neonates. The Nurse Manager of a 63-bed Regional Neonatal Intensive Care Unit (RNICU) in the Southeastern United States was interviewed and expressed concern over the knowledge gap of new hire nurses, specifically those who were recent graduates, and their integration as safe, competent, and effective members of the healthcare team. This problem was intensified by the fast-paced ICU environment, short orientation timeframe, and budget constraints.

PROJECT PURPOSE

The purpose of this project was to implement a transition to practice program in the RNICU to increase nurse expertise, generate best practice, improve patient care, and develop well-rounded neonatal nurses in a timely manner.

METHODOLOGY

Dr. Patricia Benner's stages of clinical competence, adapted from the Dreyfus Model of Skill Acquisition, guided the development and implementation of the neonatal transition to practice program. The transition to practice program in the RNICU aimed to develop a cohort of new graduate nurses in the novice stage and progress them through the advanced beginner stage to the clinically competent stage. Nurses participated in a 10-week transition to practice program embedded within their 12-week orientation. Seven in-person classes and three online modules were integrated into the orientation precepting schedule. Classes presented content from general unit and orientation information to specific neonatal pathophysiology, skills, policies and procedures. New hires completed a pre- and post-survey in addition to a pre- and post-test using the Basic Knowledge Assessment Tool for the NICU, Version 5r (NICU-BKAT5r) to gauge neonatal knowledge baseline, knowledge acquisition, and competence.

RESULTS

Pre-test results from the NICU-BKAT5r showed new hire nurses scored an average of 62.8% in comparison to post-test results with an average of 67.1%. The Thompson Tau Technique was used to determine outliers in the data set and it was determined there was one outlier which was removed prior to completing the statistical analysis. A Wilcoxon Signed Rank test was used to analyze differences in the pre-test and post-test scores. At the .05 level of significance, there was a statistically significant improvement in post-test scores ($p=.004$). One limit to the study was the small sample size of nine participants. Pre- and post-surveys, in addition to formative and summative evaluations of the program, were positive. Pre-survey data showed two nurses disagreed with the statement "do you feel prepared to practice as a RN in the NICU," and seven nurses felt neutral. In contrast, after completion of the program and post-survey, one nurse changed from disagree to neutral, one nurse changed from disagree to agree, and the remaining seven nurses changed from neutral to strongly agree. A Wilcoxon Signed Rank test was used to analyze differences in the pre-survey and post-survey scores. At the .05 level of significance, there was a statistically significant improvement in post-survey scores ($p=.004$). Nurse participants stated, "the program was excellent," that it "provided a combination of learning styles and activities that allowed me to gain adequate knowledge and skills for the NICU," and was "essential to

success." Areas for improvement include adding more hands-on experience and simulation to classes and more time on night shift.

IMPLICATIONS FOR PRACTICE

New hire nurses, nursing staff, interdisciplinary team members, and unit leadership embraced the new program, especially its budget neutral approach. Both confidence and knowledge were gained through program completion. Flexibility of the program will be tested as future cohorts are hired into the RNICU. The program has been presented to hospital professional development specialists for potential dissemination across the organization. Plans for an extended program with a mentoring component will be developed.

Title:

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Keywords:

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References:

Buffum, A. R., & Brandon, D. H. (2009). Mentoring new nurses in the neonatal intensive care unit. *Journal of Perinatal and Neonatal Nursing*, 4, 357-362. doi: 10.1097/JPN.0b013e3181ba5874

Burch, T., Napier, R., & Altimier, L. (2009). Teaching novice neonatal intensive care unit nurses to think critically. *Newborn & Infant Nursing Reviews*, 9, 124-127. doi:10.1053/j.nainr.2009.03.008

Klingbeil, C., Schiffman, R. F., Ziebert, C., Totka, J. P., Schmitt, C. A., Doyle, L.,...Johnson, N. (2016). Transition of experienced and new graduate nurses to a pediatric hospital. *Journal for Nurses in Professional Development*, 32, 198-204. doi: 10.1097/NND0000000000000260

Petiprin, A. (2016). Patricia Benner novice to expert - nursing theorist. Retrieved from <http://www.nursing-theory.org/nursing-theorists/Patricia-Benner.php>

Spence, K., Sinclair, L., Morritt, M. L., & Lang, S. (2016). Knowledge and learning in specialty practice. *Journal of Neonatal Nursing*, 22, 263-276. doi:10.1016/j.jnn.2016.05.002

Abstract Summary:

A transition to practice program was implemented in a Regional Neonatal Intensive Care Unit to manage new hire transition into the specialty area. Results of the program were statistically significant and showed improvement in knowledge gained and feeling of preparedness to practice as a nurse in the NICU.

Content Outline:

Introduction

Research has shown there is an identified lack of neonatal nursing knowledge of new graduates as they enter a unit caring for a specialty population. Most novice NICU nurses have little to no nursing school or clinical experience to prepare them for the high stakes care of critically ill neonates

Body

Objective: The purpose of this project was to implement a transition to practice program in the RNICU to increase nurse expertise, generate best practice, improve patient care, and develop well-rounded neonatal nurses in a timely manner.

1. Benner's stages of clinical competence
2. Program Outline
3. Program Content
4. Results of surveys and tests

Conclusion

Recommendations for practice

First Primary Presenting Author

Primary Presenting Author

Megan Zerillo, DNP, RN
Samford University
Ida V. Moffett School of Nursing
DNP Student
Birmingham AL
USA

Professional Experience: 2011- graduation from University of Alabama Capstone College of Nursing with BSN. 2011-2014- Employment as a Registered Nurse at University of Alabama Birmingham (UAB) Hospital in Labor and Delivery and Regional Neonatal Intensive Care Unit (RNICU). 2013 - Graduation from UAB School of Nursing with MSN in Nursing Education. 2014-2016 - Nursing Faculty at Wallace State Community College in Hanceville, AL 2016-2018 - Employment at UAB Center for Nursing Excellence as RNICU Nursing Professional Development Specialist. 2018 - Graduation with DNP in Nursing Administration from Samford University Ida V. Moffett School of Nursing. 2018-present - Assistant Professor of nursing at the Pennsylvania College of Health Sciences in Lancaster, PA.

Author Summary: Dr. Megan Zerillo worked at UAB Hospital in Birmingham, Alabama as a Nursing Professional Development Specialist in the Regional Neonatal Intensive Care Unit (RNICU). Additional experience includes working as a faculty member at Wallace State Community College in Hanceville, Alabama and as a registered nurse in the RNICU and Labor and Delivery at UAB Hospital. Currently Dr. Zerillo is an Assistant Professor at the Pennsylvania College of Health Sciences where she teaches OB and Med-Surg.

