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Evaluation of an Individualized Patient Education Checklist and Teach-Back Method in Postpartum Education

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Presentation Objectives

- 1. Participant will be able discuss how improved education contributes to maternal-infant health promotion and reduction of complications in the postpartum period.
- 2. Participant will be able to identify the need for a quality, evidenced-based method for delivering postpartum patient education.
- 3. Participant will be able to recognize an Individualized Patient Education Checklist combined with the teach-back method as an evidenced-based approach to delivering postpartum patient education and improving patient satisfaction.



Introduction

The quality of postpartum education that a new mother receives is critical to the knowledge and skills that she will have in caring for her infant and herself after discharge.

Postpartum education impacts:

- A mother's confidence and ability to care for herself and her infant.
- Maternal-infant health outcomes. 1,4,16,24
- The mother's perception of the quality of care provided.²⁴
- Patient satisfaction scores.¹²

Specific to this DNP project site:

- The HCAHPS scores suggested that women perceived inadequate postpartum education.
- Unit Shared Governance requested enhanced, patient-centered postpartum education.



Literature Review

- Minimal studies on specific methods for teaching postpartum education.
- Mothers report that they are getting a lot of content but not what they feel they need or want, leaving them with the perception of unmet learning needs.^{2,5}
- Teaching needs to be individualized to each mother's needs and desires.^{10,15,21,26}
- Current teaching is fragmented and inconsistent.^{10,22,23, 24}
- Quality teaching requires quality materials and nurses skilled in content delivery.^{5,9,21,22}
- The use of multiple modalities of delivery is effective for patient learning.^{2,3,21}
- Education needs to be efficient.¹⁶
- Studies support the teach-back method however, none were specific to postpartum education.^{7,14,15,24}



Problem Statement

There is insufficient evidence that clearly defines an effective teaching method for delivering postpartum education.

Purpose Statement

The purpose of this project was to evaluate the effectiveness of an individualized patient education checklist combined with teach-back as a method for delivering postpartum education.



PICO

For nurses on a mother-baby unit who provide postpartum education, does training in use of teach-back and a postpartum education checklist improve delivery of individualized postpartum education as evaluated by comparing pre-intervention baseline and post-intervention HCAHPS scores and nurse teach-back observation scores?



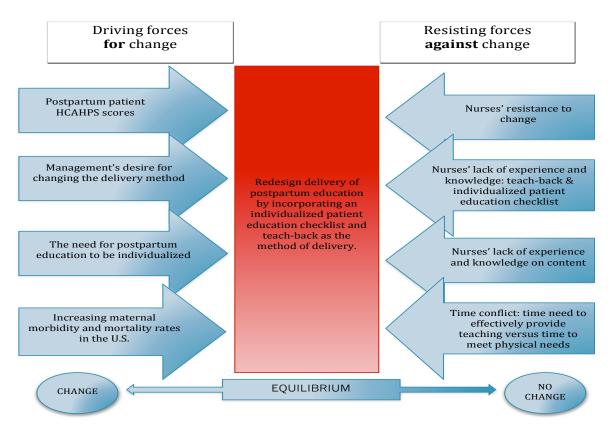
Project Objectives

- Integration of an Individualized Patient Education Checklist and teach-back into the current method of delivering postpartum education.
- 2. Evaluate the effectiveness of computer-based learning (CBL) training sessions on the inclusion of the checklist and teach-back method in delivery of postpartum education.
- 3. Evaluate the impact of using the Individualized Patient Education Checklist and the incorporation of the teach-back method on HCAHPS scores.



Conceptual Framework

Lewin's Theory of Planned Change Force Field Analysis



Design and Methods

Design: Quasi-experimental design with a pretest-posttest evaluation.

Setting: Obstetrical unit in a rural, southeastern Ohio hospital.

- Average 120 births a month.
- Employs approximately 55 nurses who have a role in the delivery of postpartum care and education.

Incentive: Completion of learning modules earned 1 ONA approved CEU.



Sample

Sample: Convenience sample of 20 nurses from the obstetrical unit.

Inclusion criteria:

- At least 18 years of age.
- Educational background in nursing including Licensed Practical Nurses (LPN), Associate Degree Nursing (ADN) and Bachelor of Science in Nursing (BSN).
- Have a role in the delivery of postpartum care and education.
- Voluntarily consent to participate in the project and to being observed during postpartum teaching both pre- and postintervention.

Exclusion criteria

Nurses from the hospital float-pool team.



Data Collection

♦ Pre-intervention:

- Observed nurses' delivery of postpartum education using the Teach-Back Debrief Evaluation over 10 weeks.
- Reviewed the 6 HCAHPS scores related to postpartum education over a 1-month period.
- Demographic data: nurse level, education level, years of experience as a nurse on the obstetrics unit; and the unit the participant was primarily assigned.

♦ Post-intervention:

- Re-observed the same nurses' delivery of postpartum education using the Teach-Back Debrief Evaluation over 8 weeks.
- Reviewed the 6 HCAHPS scores related to postpartum education over 1-month period.



Data Collection Tools

Teach-Back Debrief Evaluation Form

Postpartum Education

Rating Scale: 5=Very Well; 3=Fairly Well; 1=Need Improvement

1. Transition into the education session using the individualized patient checklist	5	4	3	2	1
2. Clearly states the purpose and information	5	4	3	2	1
 Explain or clarify information in a clear and concise manner- use pla language 	in 5	4	3	2	1
4. Encourage and validate behavior demonstration	5	4	3	2	1
5. Reframe, clarify, and emphasize comments and questions	5	4	3	2	1
6. Display good time management skills and remains on task	5	4	3	2	1
7. Keep personal opinions/biases in check	5	4	3	2	1
8. Cover the key points of each topic	5	4	3	2	1
9. Summarize and/or transition to the next topic	5	4	3	2	1

How would you rate the overall learning experience?

What did this nurse do well?

Are there areas that need improvement?

Additional comments:

6 HCAHPS Questions

During this hospital stay, how often did nurses explain things in a way you could understand?

Before giving you any new medicine, how often did hospital staff tell you what the medicine was for?

Before giving you any new medicine, how often did hospital staff describe possible side effects in a way you could understand?

During this hospital stay, did you get information in writing about what symptoms or health problems to look out for after you left the hospital?

When I left the hospital, I had a good understanding of the things I was responsible for in managing my health.

When I left the hospital, I clearly understood the purpose for taking each of my medications.

Intervention

Phase 1

All unit nurses completed the computer-based learning module.

Phase 2

- ♦Implementation of the Individualized Patient Education Checklist for postpartum patients.
- Implementation of the teach-back method into current methods of postpartum education delivery.



Individualized Patient Education Checklist

Individualized Patient Education Needs Checklist

Here at Genesis we recognize every new mother as an individual with her own postpartum and newborn teaching needs. This checklist will assist us in meeting your expectations and needs. For each topic area, please initial what you feel are your education needs. There are some areas that will be marked that every mother will receive, you do not need to initial in those areas.

* Nurse Initials indicate that education has been provided and patient understanding has been evaluated using the teach-back method.

method.						
Topic	Patient Individualized Need of Content					
Postpartum Care of Self video	Never	Have viewed	Have viewed with			
	viewed, need to	with previous births but	previous births, do not need			
Nurse Initials	watch.	would like to watch.	to watch.			
Postpartum care of the	Never	Have viewed	Have viewed with			
newborn video	viewed, need to	with previous births but	previous births, do not need			
	watch.	would like to watch.	to watch.			
Nurse Initials						
Shaken Baby Syndrome Video	All mothers will	All mothers will receive	All mothers will receive this.			
Nurse Initials	receive this.	this.				
Mother's Self Care						
Danger signs- mother/ when	All mothers will	All mothers will receive	All mothers will receive this.			
to contact a healthcare	receive this.	this.				
provider						
Nurse Initials						
Medication purposes and	All mothers will	All mothers will receive	All mothers will receive this.			
potential side effects.	receive this.	this.				
Nurse Initials						
Managing postpartum pain	Need	I have had this	I have had this			
	education.	education previously but	education and do not feel			
Nurse Initials		would like refreshed.	that I need further teaching.			
Urine and bowel elimination	Need	I have had this	I have had this			
	education.	education previously but	education and do not feel			
Nurse Initials		would like refreshed.	that I need further teaching.			
Swelling in my legs or hands	Need	I have had this	I have had this			
	education.	education previously but	education and do not feel			
Nurse Initials		would like refreshed.	that I need further teaching.			
Episiotomy and/or laceration	Need	I have had this	I have had this			
care	education.	education previously but	education and do not feel			
☐ Mark if have no episiotomy		would like refreshed.	that I need further teaching.			
Nurse Initials						

Infant vitamins purpose and administration instructions. Nurse Initials	All mothers will receive this.	All mothers will receive this.	All mothers will receive this.
"Back to Sleep" (Positioning the baby for sleeping) Nurse Initials	All mothers will receive this.	All mothers will receive this.	All mothers will receive this.
Bulb syringe Nurse Initials	All mothers will receive this.	All mothers will receive this.	All mothers will receive this.
Changing a diaper, skin care, and diaper rash Nurse Initials	Need education.	I have had this education previously but would like refreshed.	I have had this education and do not feel that I need further teaching.
Bathing	Need education.	I have had this education previously but	I have had this
Nurse Initials	education.	would like refreshed.	that I need further teaching.
Taking a temperature	Need education.	I have had this education previously but	I have had this education and do not feel
Nurse Initials		would like refreshed.	that I need further teaching.
Circumcision and care NA baby is a female Nurse Initials	Need education.	I have had this education previously but would like refreshed.	I have had this education and do not feel that I need further teaching.
Different Feeding Methods	Need education.	I have had this education previously but	I have had this education and do not feel
Nurse Initials	education.	would like refreshed.	that I need further teaching.
Bottle feeding	Need education.	I have had this education previously but	I have had this education and do not feel
Nurse Initials		would like refreshed.	that I need further teaching.
Feeding schedule Nurse Initials	Need education.	I have had this education previously but would like refreshed.	I have had this education and do not feel that I need further teaching.
Formula preparation	Need	I have had this	I have had this
Nurse Initials	education.	education previously but would like refreshed.	education and do not feel that I need further teaching.
Sterilization of bottles and nipples	Need education.	I have had this education previously but would like refreshed.	I have had this education and do not feel that I need further teaching.
Nurse Initials		would like refreshed.	and the diameter teaching.
Breastfeeding	Need education.	I have had this education previously but	I have had this education and do not feel
Nurse Initials		would like refreshed.	that I need further teaching.
Feeding schedule	Need education.	I have had this education previously but	I have had this education and do not feel
Nurse Initials		would like refreshed.	that I need further teaching.

Data Analysis

- Data analysis performed using Excel and SPSS.
- Descriptive statistics using:
 - Frequencies of all variables
 - Mean of continuous variables
 - Median and modes for categorical variables and observation Likert scale scores.
- Observation and HCAHPS data: Nonparametric Wilcoxon Signed Rank test.



Results: Demographics

- 20 nurses observed.
- Years of experience: mean 12 years (range 0.5-38.5)
- Types of nurses:
 - LPN 10% (n= 2)
 - ADN 25% (n=5)
 - BSN 65% (n=13)
- Primary unit:
 - L&D 70% (n= 14)
 - Mother-baby 30% (n= 6)

Spearman's rho correlational tests showed no significant relationship between the demographics variables and the pre- or post-intervention scores.



Results: Observations

Wilcoxon Signed Rank tests showed that median scores significantly increased after the intervention compared to baseline (p < 0.001), indicating that nurses' delivery of postpartum education significantly improved after the intervention.

Wilcoxon Signed Ranks Test: Observation Results

Observations	Median	Z	<i>P</i> Value (p=<0.001)
Pretest (<i>n</i> = 20)	3.78	-3.926	.000
Posttest (n = 20)	4.89	-3.926	.000

Results: Observations

Evaluation of patient understanding

- Pre- "Do you have any questions?"
- Post- Having the patient repeat back and twice, return demonstration was utilized.

Pace and clarity of delivery

- No difference noted in the responses.
- Majority of nurses spoke clear and slow, at least six spoke clear but fast.
- Distractions during education delivery (TV, baby crying, siblings, etc.)
 - Noted more frequently in post-intervention.
- Nurses' comments:
 - "A multiparous mother does not need education, this mom is a gravida five, she does not need any teaching"
 - "...surprised that it really did not take any longer"
 - "...felt like the teaching checklist helped direct and organize my teaching better" and she felt like it would "better meet each patient's specific needs".



Results: HCAHPS

Using Wilcoxon Signed Rank test, there was an improvement in combined median HCAHPS scores, although not statistically significant:

- One month pre-intervention= 77.8 (did not meet the set desired target benchmark of 80.95)
- One month post-intervention= 81.9 (exceeded the desired target benchmark of 74.1)



Discussion

- Findings suggest that an evidence-based postpartum education program with teach-back and an individualized patient education checklist improves the delivery of the education by nurses.
- Overall acceptance and adherence by nurses indicates a positive change in the nursing care and education given to postpartum women and supports the effectiveness of the CBL for training nurses.
- Though not statistically significant, the increase in HCAHP response median scores suggests improved delivery of education for postpartum women preparing for hospital discharge.
- There were 2 areas for improvement identified through the project but not addressed by the intervention:
 - Minimal education provided on postpartum warning signs and complications.
 - Distractions in the environment could have limited the mother from hearing or concentrating on the information being provided.



Clinical Implications

- Results of this project indicate that the utilization of an individualized patient education checklist combined with the teach-back method may be one evidenced-based approach to delivering quality postpartum education.
- Quality postpartum education has the potential to promote maternal and infant health and positively impact patient satisfaction ratings.

Limitations

Findings are not generalizable

- Only tested on one obstetrics unit.
- Small sample size.

Findings do not reflect delivery of postpartum education by all the nurses

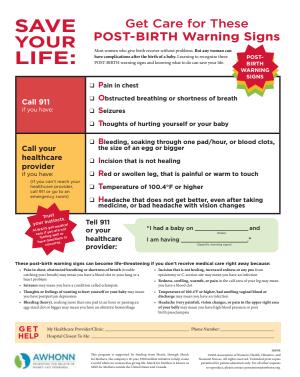
Less than 50% of target population sampled.

Short period of tracking HCHAPS scores

 May explain the lack of significant differences in the scores before and after the intervention.



Future Direction



AWHONN, 2018

- Incorporation of AWHONN's POSTBIRTH Warning Signs and education into PP discharge instructions.⁴
- Revision of documentation of postpartum hourly rounds in EPIC in an effort to allow nurses more time to educate patients.
- Proposal and cost: benefit analysis for a new patient educator position.
- Request to present as a Magnet QI project.
- Sustainability of practice changes:
 - Interventions have been adopted into current practice.
 - Continued monitoring of project implementation through chart reviews and HCAHP reports.
 - Incorporate interventions into unit orientation and annual competency materials.
 - Continued staff education on postpartum education content and practices.
 - Follow-up at unit meetings to solicit feedback on what is working and what is not, make changes accordingly.

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Questions



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