



**Academic Affairs Committee
September 9, 2025**

Discussion Item

AAC – 3 School of Nursing – Improving Maternal Outcomes Through Simulation-Based Training

Background Information

The Dean of the School of Nursing, Debra Barksdale, will be joined by faculty members, Dr. Lisa Anders and Dr. Tammy Hall, to discuss their efforts to improve maternal outcomes. The School of Nursing implemented Rapid Cycle Deliberate Practice (RCDP) to train Maternal/Child Health Scholars in postpartum hemorrhage interventions—an urgent priority in maternal care. These nursing students, supported through a HRSA-funded program, are deeply committed to improving outcomes for women and infants in underserved communities. The use of RCDP significantly increased students’ knowledge, confidence, and clinical readiness to respond to one of the leading causes of preventable maternal mortality. This innovative approach exemplifies our mission to prepare nurses who are equipped to reduce maternal/child health disparities and deliver high-quality care where it’s needed most.

Attachment:

AAC-3.1 School of Nursing, Improving Maternal Outcomes Through Simulation-Based Training, PowerPoint

A handwritten signature in black ink, appearing to read "J. Alan Boyette".

J. Alan Boyette
Provost & Executive Vice Chancellor

LEAD in MCH Scholars: Training the Next Generation to Confront Maternal Mortality



Lisa Anders PhD, RN, IBCLC

Assistant Professor, LEAD in MCH Program Director

Tammy Hall, PhD, RN

Assistant Professor, RN-BSN Program Director

LEAD in MCH Program Overview

- Leadership, Education, and Diversity in Maternal-Child Health
- HRSA-funded LEAP Program
 - Student tuition assistance and stipends
 - Curriculum enhancements
 - Dedicated student support
 - Special training opportunities (simulation, internship/shadowing, etc)
- 6 Programs across the country (Ours is ONLY nursing program)



LEAD in MCH Program Objectives and Outcomes

- Recruit and retain 10 scholars to participate in program each year
- Employment in MCH setting after graduation
- Graduate School enrollment with 5 years of graduation



Expanding Our Impact

- Examine MCH disparities and causes of maternal and neonatal mortality
 - Preterm birth
 - Postpartum Hemorrhage
- All scholars last year completed initial training to become certified in either Neonatal Resuscitation or Pediatric Advanced Life Support
- Innovative Postpartum Hemorrhage Simulation

Postpartum Hemorrhage

- A leading cause of maternal morbidity and mortality- 1%-6% of all deliveries
- Requires:
 - Rapid recognition
 - Rapid intervention
 - Collaborative effort
- A sequence of standardized evidence-based interventions is most beneficial.

Rapid Cycle Deliberate Practice

- Simulation-based instruction framework developed at Johns Hopkins University
- Repeated cycles of practice and feedback
- Can rapidly improve clinical skills
- Useful for learning interventions for high-stakes, time-sensitive situations

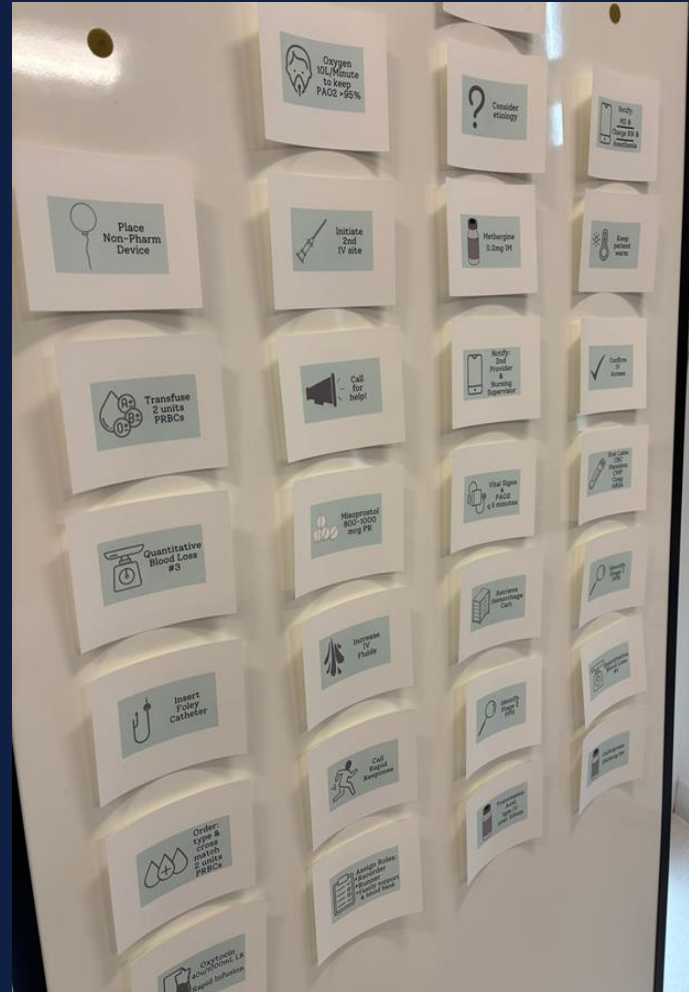


Implementing with MCH Scholars

- Juniors and Seniors
 - All had either completed or were enrolled in OB Didactic Course
 - All had received PPH didactic information
- 3 Steps
 - Didactic review of PPH and interventions
 - Tabletop Simulation
 - RCDP
- Pre/Post RCDP Survey



Implementing with MCH Scholars



PPH RCDP Checklist

Group _____

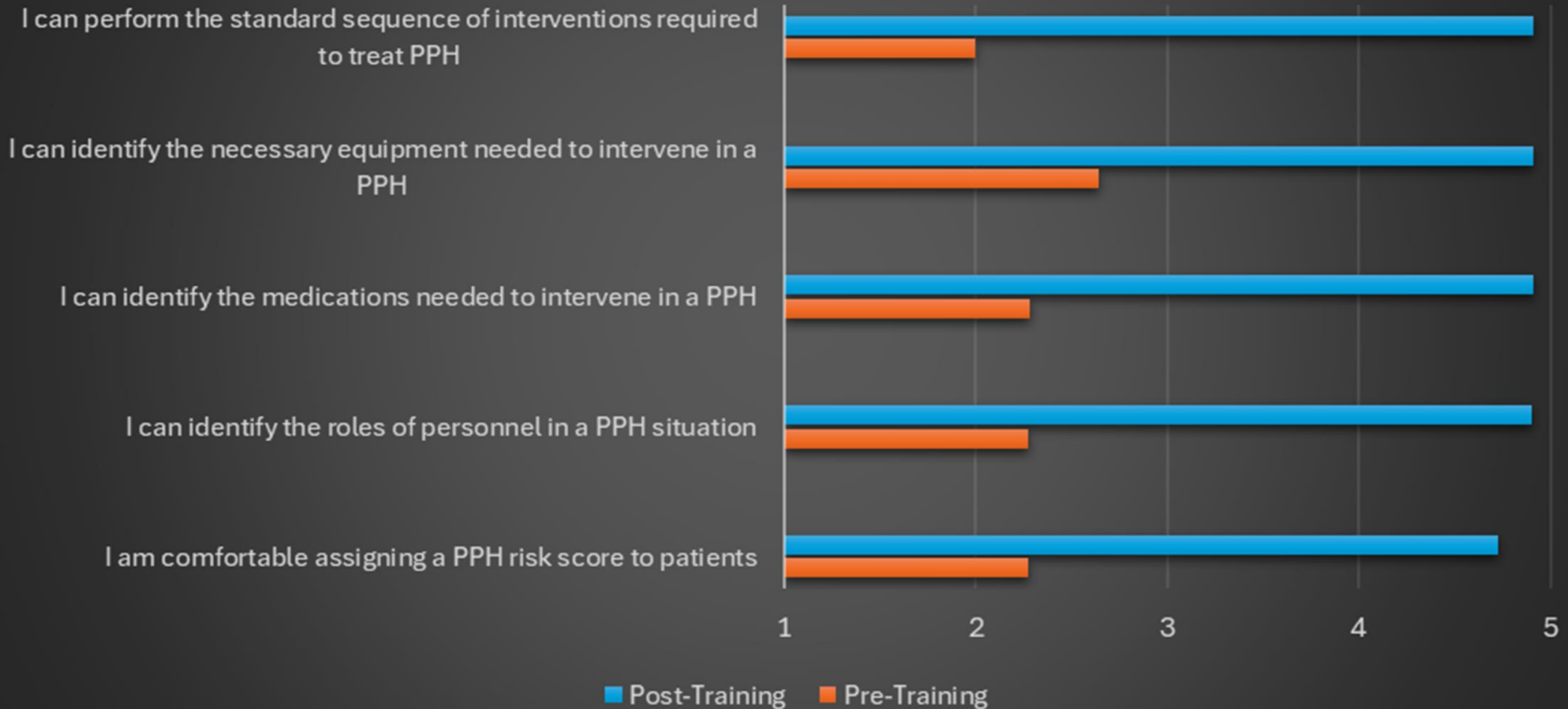
Step	Attempt 1	Attempt 2	Attempt 3	Attempt 4	Attempt 5	Attempt 6
QBL #1						
Ident. stage 1						
Call for help						
Notify MD, Charge RN, Anesthesia						
Confirm IV access						
Oxytocin Rapid infusion						
Increase IV fluids						
Fundal massage						
2 nd line oxytocin						
VS/PAO2 q5min						
O2 10L/min						
Insert foley						
Order T&C for 2 units						
Keep pt warm						
Other etiology?						
QBL #2						
Identify stage 2						
Notify 2 nd provider/nursing supervisor						
Call rapid response						
PPH Cart						
Assign roles						
2 nd line meds						
Stat labs						
Initiate 2 nd IV						
Transfuse 2 U						
Place non-pharm device						
QBL #3						
Time per attempt						
Total time						

Outcomes

Team	Number of Rounds	Step Missed	Total Time to Complete (min:sec)	Time of Successful Round
1	2	3	4:28	4:00
2	1	N/A	4:17	4:17
3	2	2	3:29	3:16
4	2	24	6:54	3:20

Outcomes

Level of Confidence Pre- and Post-Training



At UNC Greensboro's School of Nursing, we are not only educating the next generation of nurses; we are cultivating leaders who will transform maternal and child health in North Carolina.

