# Reducing Postpartum Hemorrhage in a Nurse-Midwifery Practice

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# Background and Significance

- Postpartum hemorrhage (PPH) is heavy bleeding that occurs after childbirth (March of Dimes, 2015).
- PPH is the fourth leading cause of pregnancy-related deaths in the U.S., and approximately 11.5% of deaths in 2011-2014 were due to PPH (Center for Disease Control and Prevention [CDC], 2019).
- In an academic, faculty midwifery practice in the Southwest region of the U.S., the PPH rate was 5.9% in 2017. This is greater than the national rate of 5% (March of Dimes, 2015)

# Purpose and Aims

The purpose of the quality improvement (QI) project aimed to improve the safety and quality of care of the patients by reducing PPH rates, using an in-depth training session to increase knowledge and implementing a standardized protocol at a midwifery practice in the Southwest region of the United States.

- 1. To reduce the PPH rate by adapting standardized PPH toolkits and clinical practice guidelines to create a specific nurse-midwifery PPH protocol for the faculty, midwifery practice and using the protocol over a 12-week period
- 2. To increase use of the nurse-midwifery PPH protocol by measuring adherence of certified nurse-midwives (CNMs) over a 12-week period at the faculty, midwifery practice
- 3. To increase knowledge of certified nurse-midwives on PPH management with the faculty, midwifery practice over a one-day training session.

# Methods

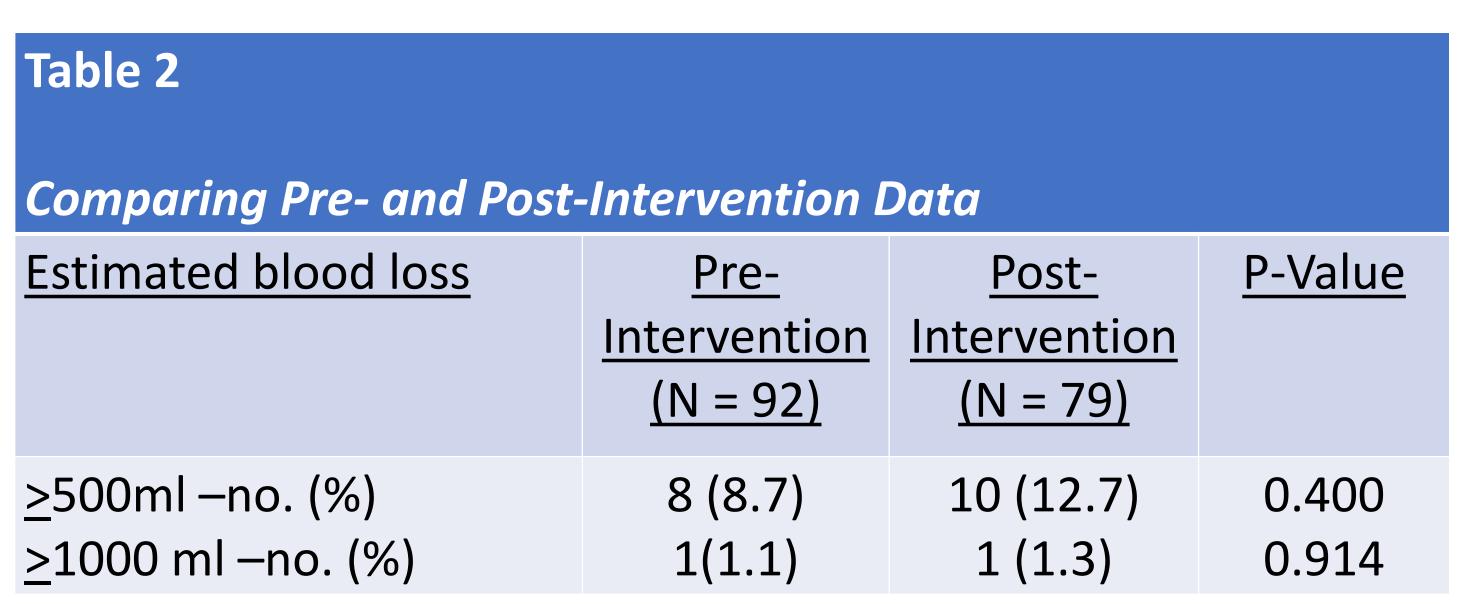
### Design

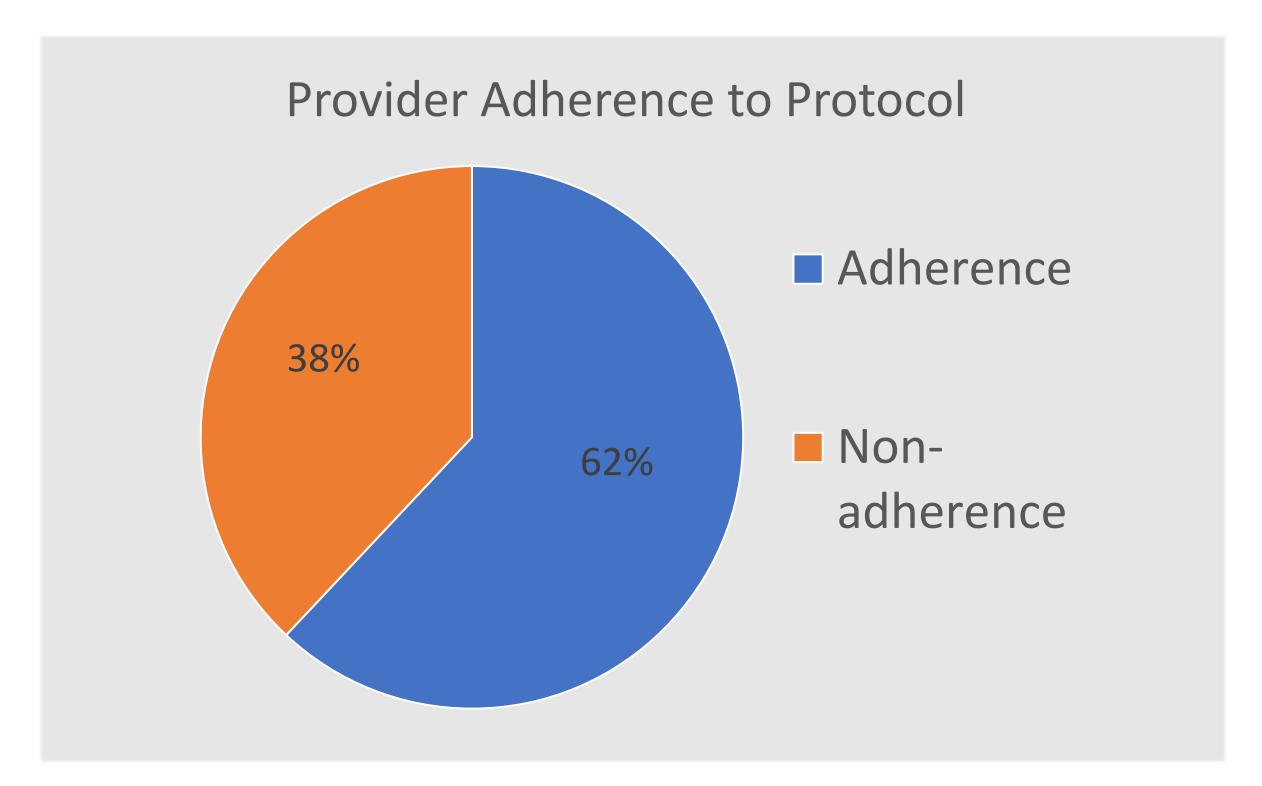
Pretest and posttest

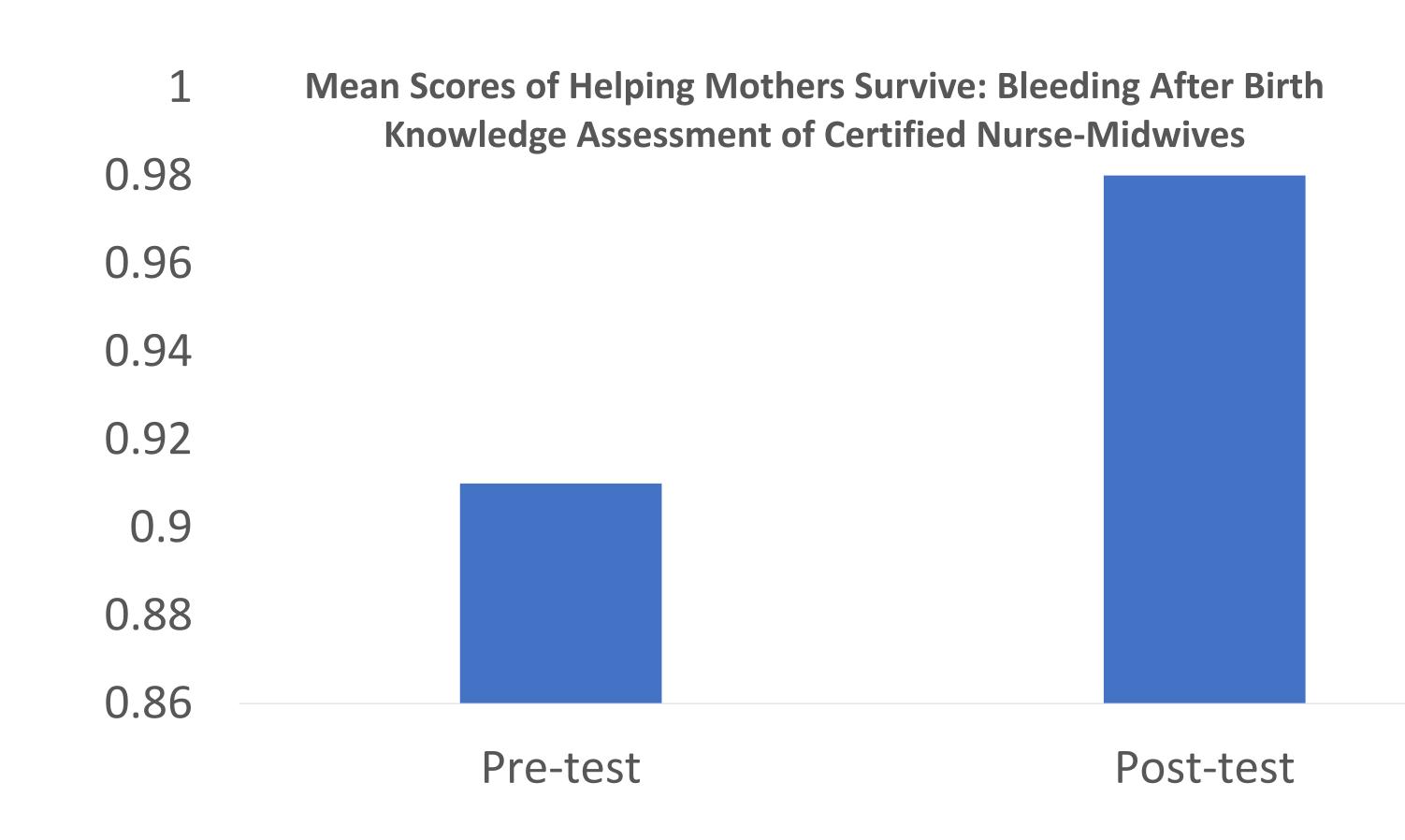
### Sample/ Setting

- Single unit practice
- Convenience sampling of CNMs (n=6)

# Table 1Certified Nurse-Midwives (CNM) Years of Experience (N = 6)Experience (Years)MedianFull-scope midwifery care12.25Faculty practice8.50







### Intervention

- PPH protocol; adapted from:
  - California Maternal Quality Cre Collaborative (CMQCC) OB Hemorrhage Toolkit v 2.0
  - American College of Obstetricians and Gynecologists (ACOG) Obstetric Hemorrhage Bundle
  - Association of Women's Health, Obstetric, and Neonatal Nurses (AWHONN) Postpartum Hemorrhage Risk Assessment
- Pretest and posttest
  - Jhpiego's Helping Mothers Survive Bleeding After Birth Knowledge Assessment

## Statistical Analysis

- Aim 1: Chi square
- Aim 2: Descriptive statistical test
- Aim 3: Wilcoxon signed rank test

# Results

### **Aim 1: Reduction of PPH**

- EBL 500 ml, no significant (p = .400)
- EBL 1000 ml, no significant change (p = .914)

### Aim 2: Provider adherence

• 62% provider adherence

### Aim 3: Increase provider knowledge

• No significant change (p = .096)

# Conclusion

Implementation of the PPH Protocol did not reduce the PPH rate. However, provider adherence and knowledge may impact PPH.

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