

AHA Members-Only Webcast

Sustaining Successful Outcomes with the Obstetric Hemorrhage Patient Safety Bundle

Presenters:

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Vice President of Nursing Research, Education and Practice, AWHONN

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Moderator:

Bonnie Connors Jellen – Director, Section for Maternal and Child Health, AHA

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**American Hospital
Association**



Debra Bingham, DrPH, RN, FAAN

Vice Chair of The Council on Patient Safety in Women's Health Care
AWHONN Vice President of Nursing Research, Education, & Practice

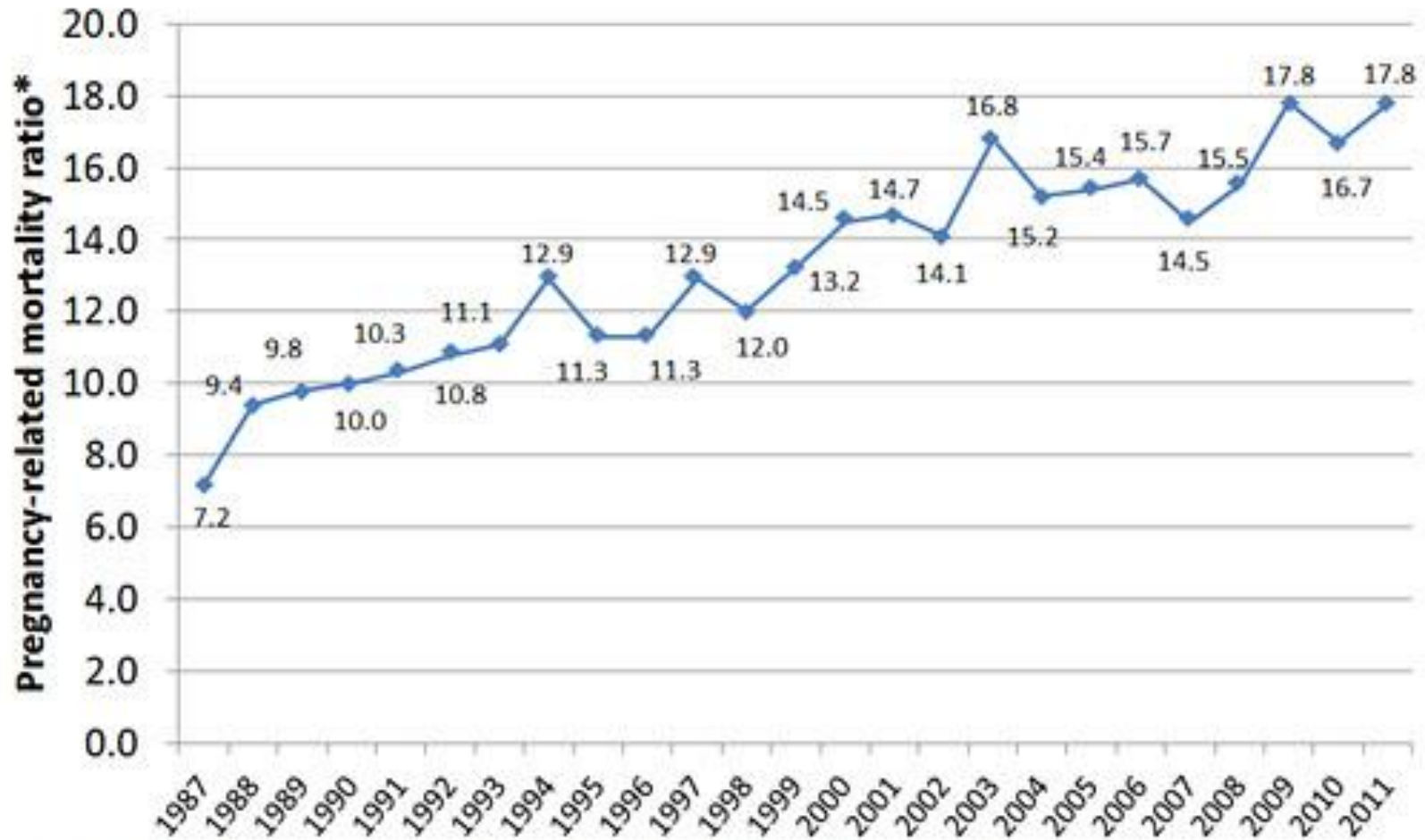
Objectives

- Describe the current trends in maternal mortality and morbidity
- Describe the national consensus bundles
- Discuss how one hospital has successfully implemented the obstetric hemorrhage bundle at their hospital
- Identify tools and resources that hospital leaders can use to implement the obstetric hemorrhage bundle



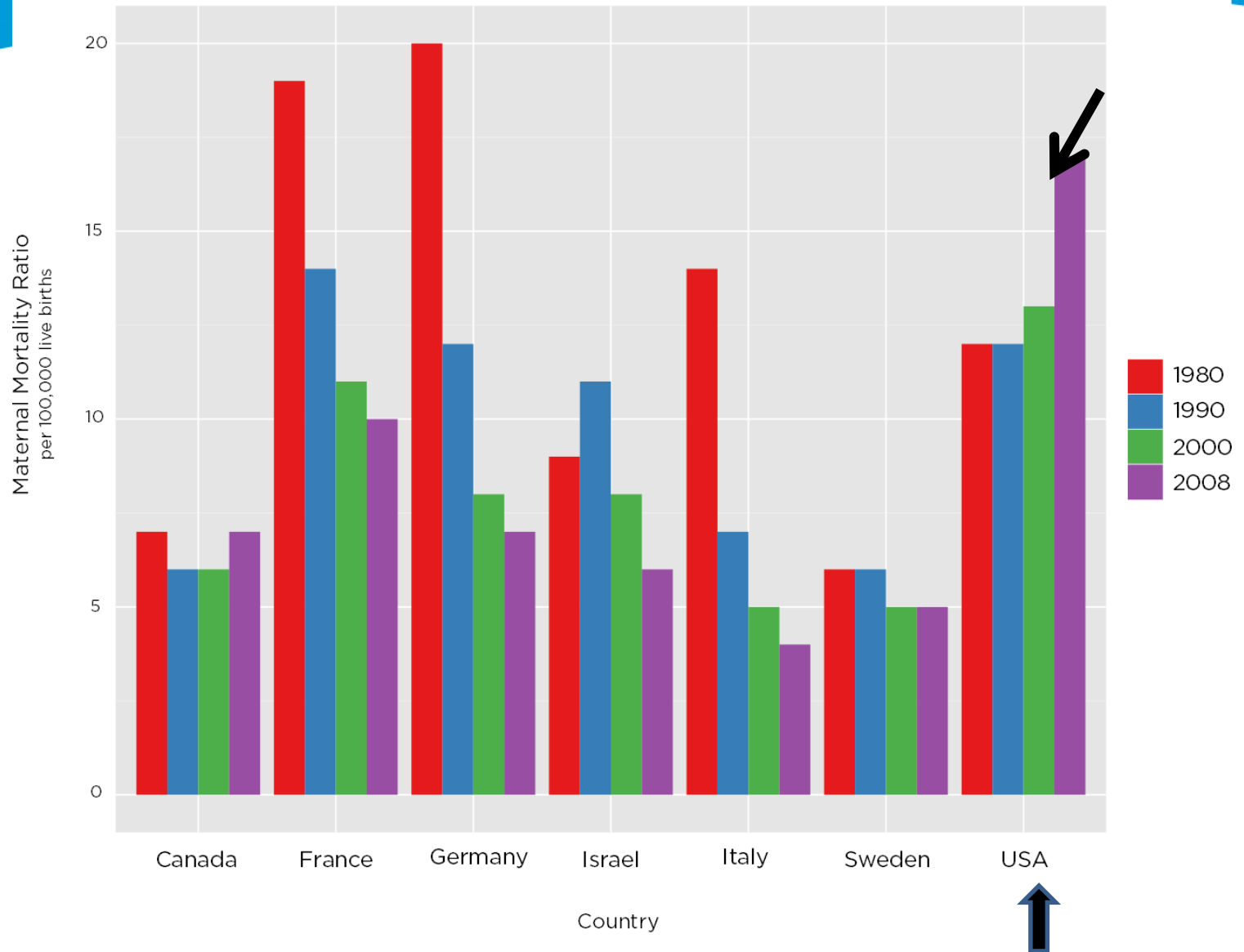
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Trends in pregnancy-related mortality in the United States: 1987–2011



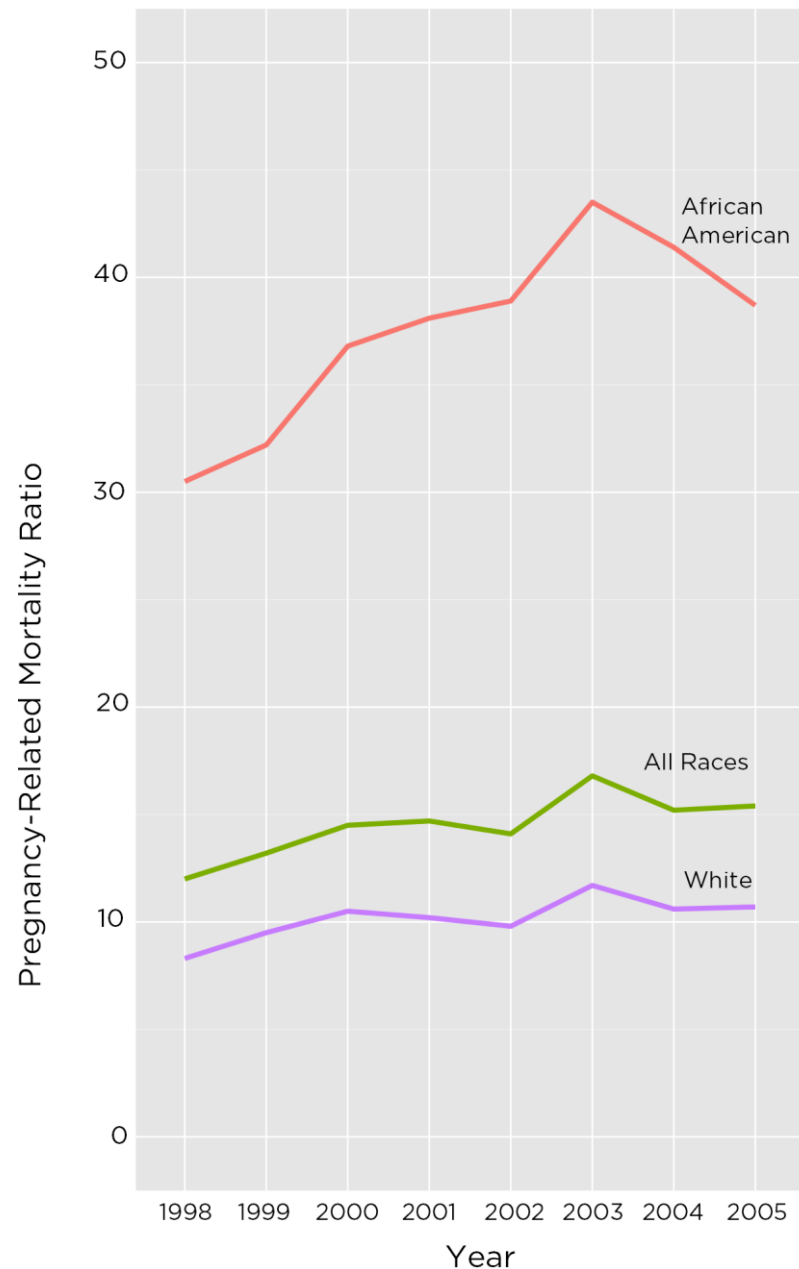
*Note: Number of pregnancy-related deaths per 100,000 live births per year.

Maternal Mortality Ratios in Selected Countries Over the Past 30 Years



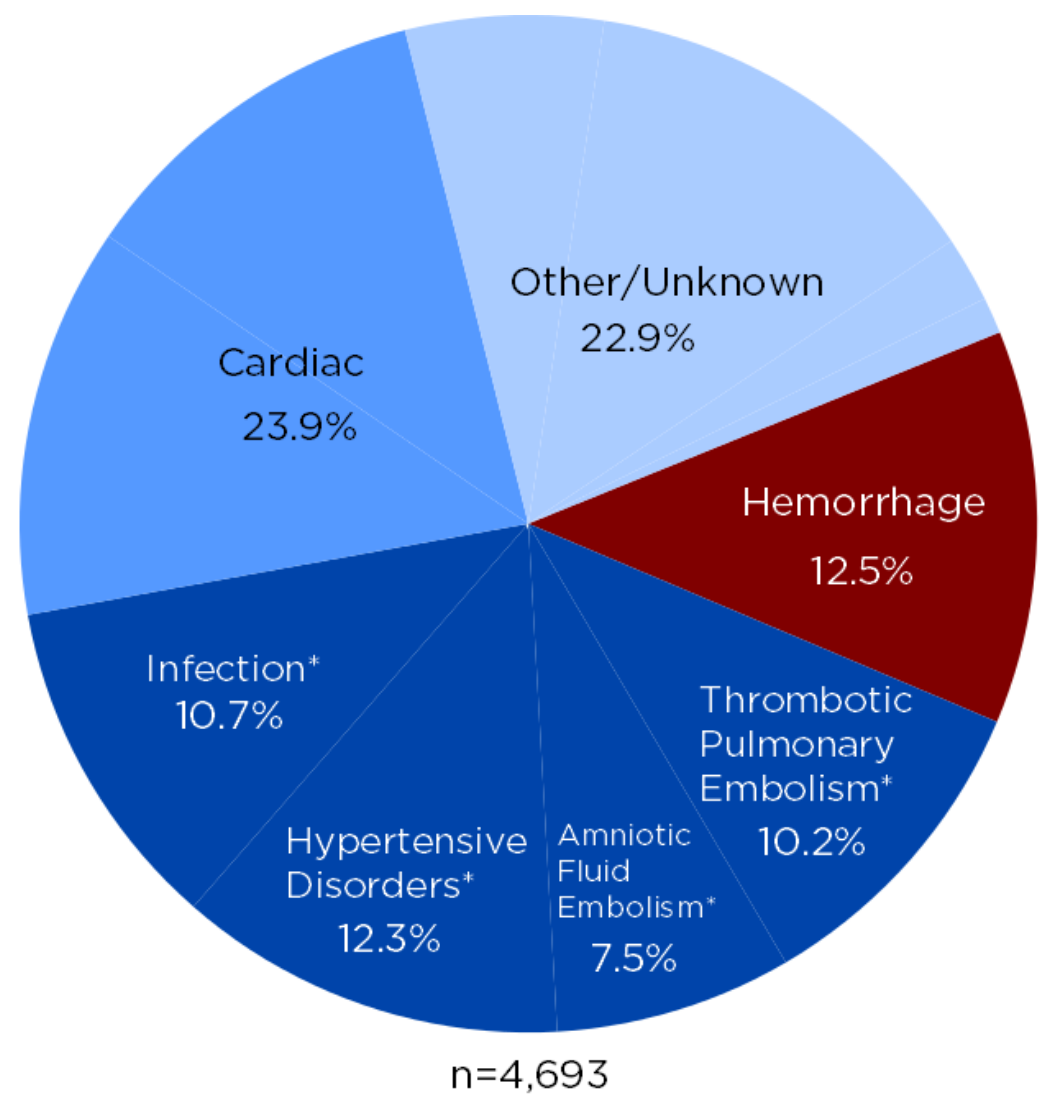
Hogan, M. C., Foreman, K. J., Naghavi, M., Ahn, S. Y., Wang, M., Makela, S. M., ... Murray, C. J. L. (2010). Maternal mortality for 181 countries, 1980-2008: a systematic analysis of progress towards Millennium Development Goal 5. *Lancet*, 375(9726), 1609-1623. [http://doi.org/10.1016/S0140-6736\(10\)60518-1](http://doi.org/10.1016/S0140-6736(10)60518-1)

Pregnancy-Related Mortality Ratio by Race



Source: Berg et al. (2010). Pregnancy-Related Mortality In the United States 1998-2005. *Obstetrics & Gynecology*, 116

Pregnancy-Related Deaths 1998-2005



*Women with these primary causes of death may also suffer hemorrhages

Source: Berg et al. (2010). Pregnancy-Related Mortality In the United States 1998-2005. *Obstetrics & Gynecology*, 116.

Council on Patient Safety in Women's Health Care

www.safehealthcareforeverywoman.org

**COUNCIL ON PATIENT SAFETY
IN WOMEN'S HEALTH CARE**
safe health care for every woman

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Meet the Council Members

The Council on Patient Safety in Women's Health Care's purpose is a unique consortium of organizations across the spectrum of women's health who have come together to promote safe health care for every woman.

We invite you to find out more about the member organizations who make the Council possible. Without their dedication, support and continual input, we would not be able to provide the comprehensive support available on this site. Meet the Council Members [by clicking here](#).

Contact the Council

We encourage you to [contact us](#) to learn more about our mission, purpose and offerings.

Get the SMM Reporting Forms

Get access to the [Severe Maternal Morbidity \(SMM\) Reporting Form](#) easily and quickly (registration required).

Download Severe Maternal Morbidity (SMM) Reporting Forms

Below, please find links to the Severe Maternal Morbidity Reporting forms. We have provided them in both Microsoft Word and Adobe PDF formats. Click on the links below the thumbhead images to download the forms:

Forms with Drop-Down Boxes

[MS Word \(Editable\)](#)

[Adobe PDF](#) (Can be completed in-form)

Facility Administrative Review

[MS Word \(Editable\)](#)

[Adobe PDF](#) (Can be completed in-form)



National Partnership for Maternal Safety

Maternal Safety Bundles

“What every birthing facility
in the U.S. should have...”

Obstetric Hemorrhage

Preeclampsia/ Hypertension

Prevention of VTE in Pregnancy

Reducing Primary Cesareans





Women die from postpartum hemorrhage because they do not receive early, effective and aggressive lifesaving treatments.





PATIENT SAFETY BUNDLE

May 2015



AAFP
ACOG
ACNM
AWHONN
SOAP
+12 other
professional
orgs and
other partners



Obstetric Hemorrhage

READINESS

Every unit

- Hemorrhage cart with supplies, checklist, and instruction cards for intrauterine balloons and compressions stitches
- Immediate access to hemorrhage medications (kit or equivalent)
- Establish a response team - who to call when help is needed (blood bank, advanced gynecologic surgery, other support and tertiary services)
- Establish massive and emergency release transfusion protocols (type-O negative/uncrossmatched)
- Unit education on protocols, unit-based drills (with post-drill debriefs)

RECOGNITION & PREVENTION

Every patient

- Assessment of hemorrhage risk (prenatal, on admission, and at other appropriate times)
- Measurement of cumulative blood loss (formal, as quantitative as possible)
- Active management of the 3rd stage of labor (department-wide protocol)

RESPONSE

Every hemorrhage

- Unit-standard, stage-based, obstetric hemorrhage emergency management plan with checklists
- Support program for patients, families, and staff for all significant hemorrhages

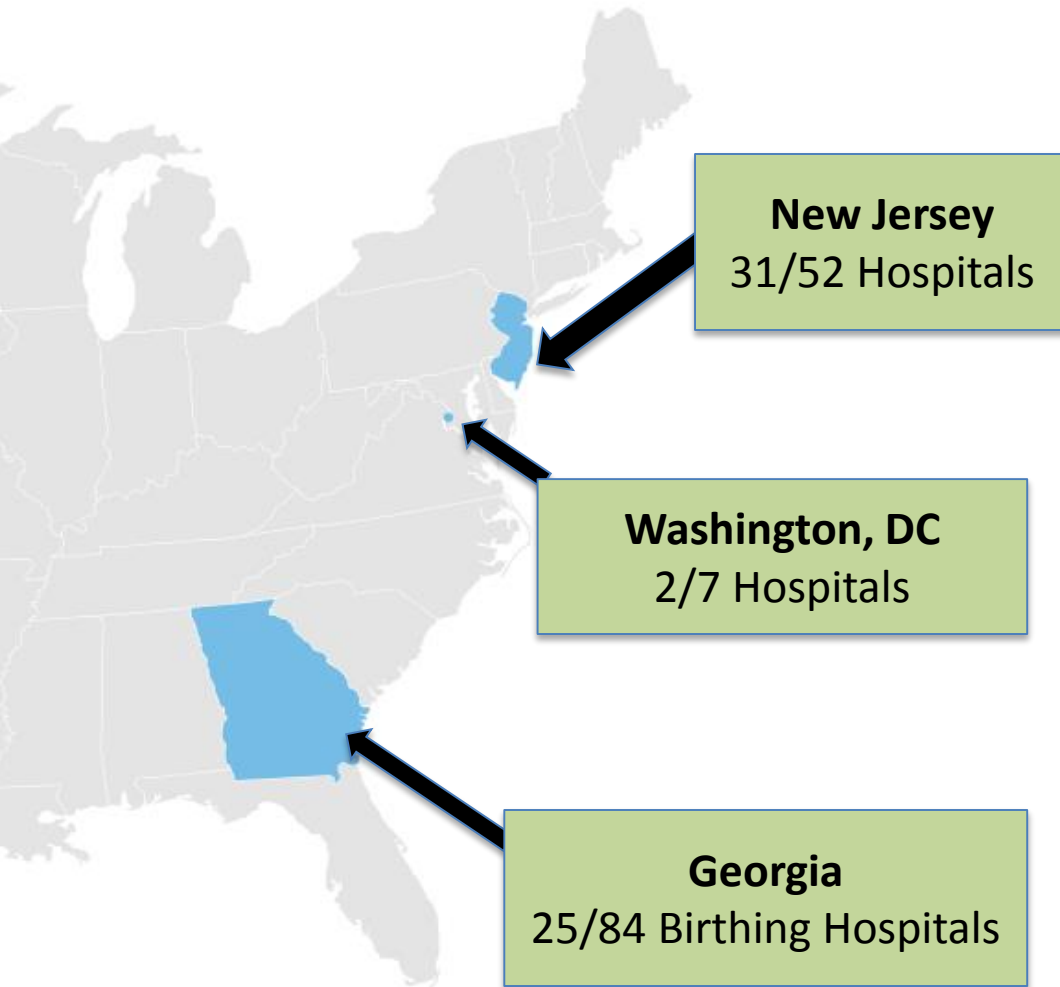
REPORTING/SYSTEMS LEARNING

Every unit

- Establish a culture of huddles for high risk patients and post-event debriefs to identify successes and opportunities
- Multidisciplinary review of serious hemorrhages for systems issues
- Monitor outcomes and process metrics in perinatal quality improvement (QI) committee

Postpartum Hemorrhage Project

www.pphproject.org



Three geographic regions were selected based on the following criteria:

- High rates of maternal mortality
- No competing OB hemorrhage-related initiatives in the state
- Strong AWHONN leadership
- Partnership opportunities with state health departments, etc.

Implementing AWHONN's Postpartum Hemorrhage Project

www.pphproject.org

Donna Poplawski, MSN, RNC, APN-C
Nurse Manager
Morristown Medical Center
Morristown, New Jersey

Morristown Medical Center

- Perinatal Center in Northwestern New Jersey
- Teaching hospital with Obstetric Residency
- 4300 deliveries annually
- 120 Maternity Center Nurses
- 40 Private Obstetricians
- 5 Obstetric Hospitalists
- Active Maternal Fetal Medicine Department

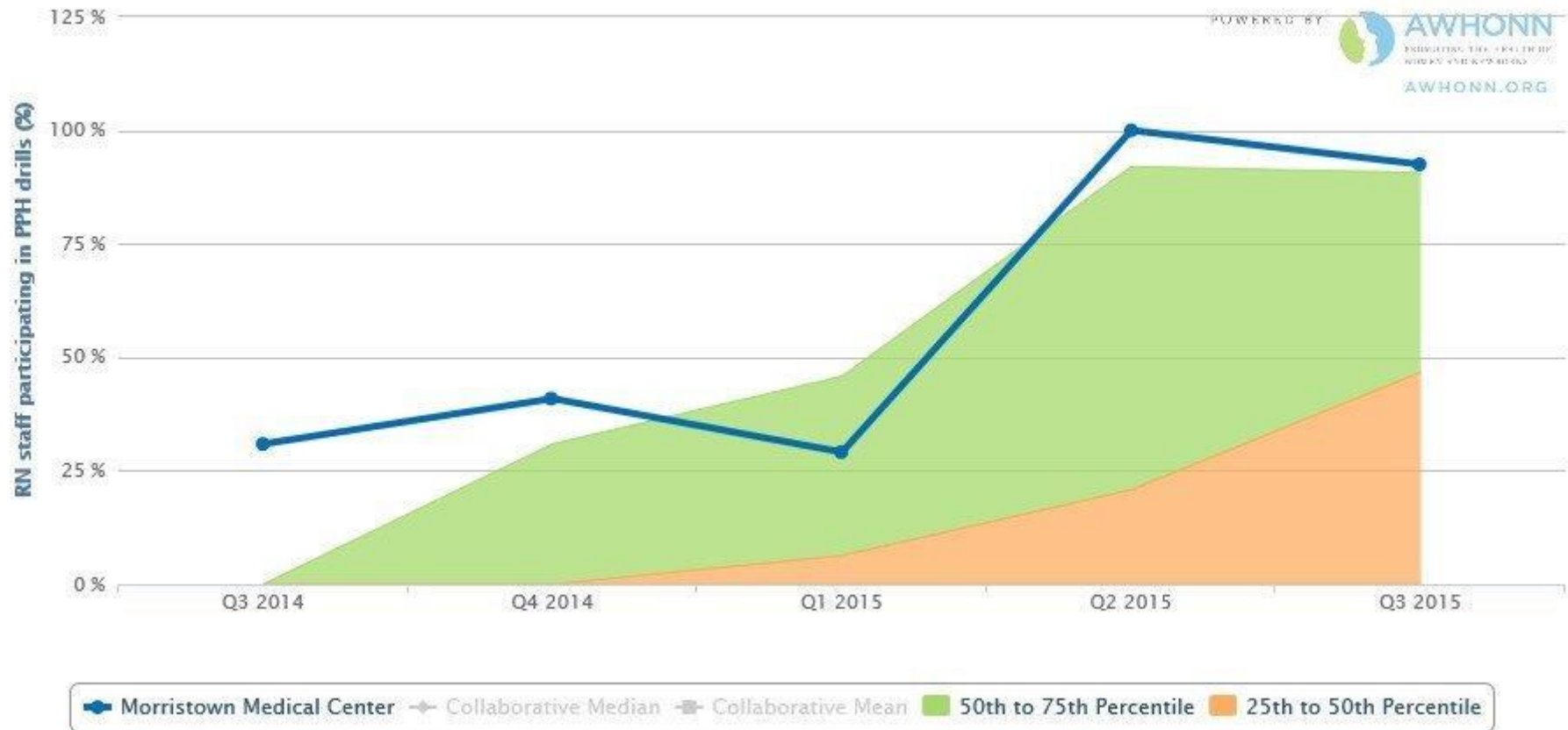
Readiness

- Hemorrhage cart / box with supplies located in L&D and Mother Baby Units
- Immediate Access to hemorrhage Medications

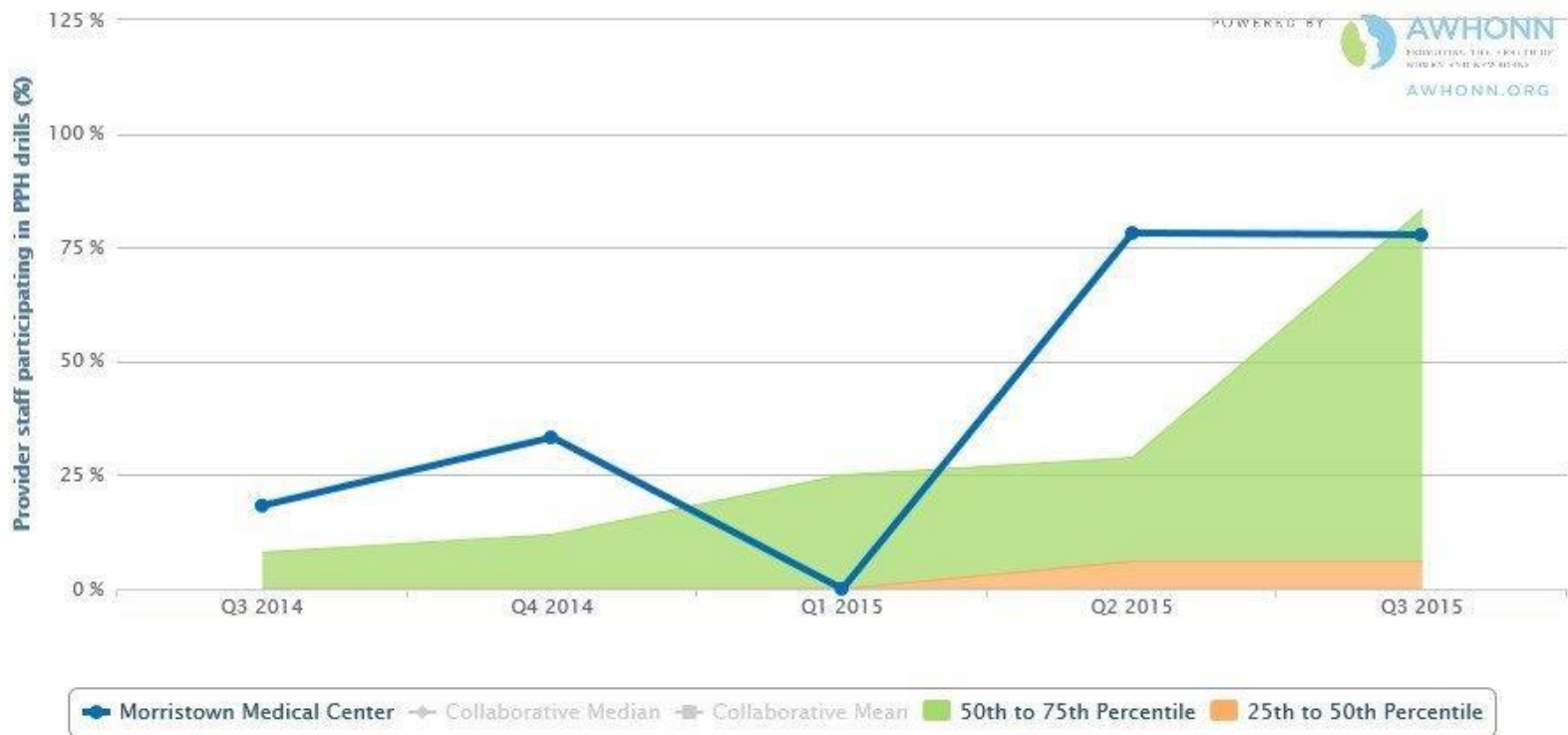
RN Participation in On Line Education



RN Participation in Hemorrhage Drills

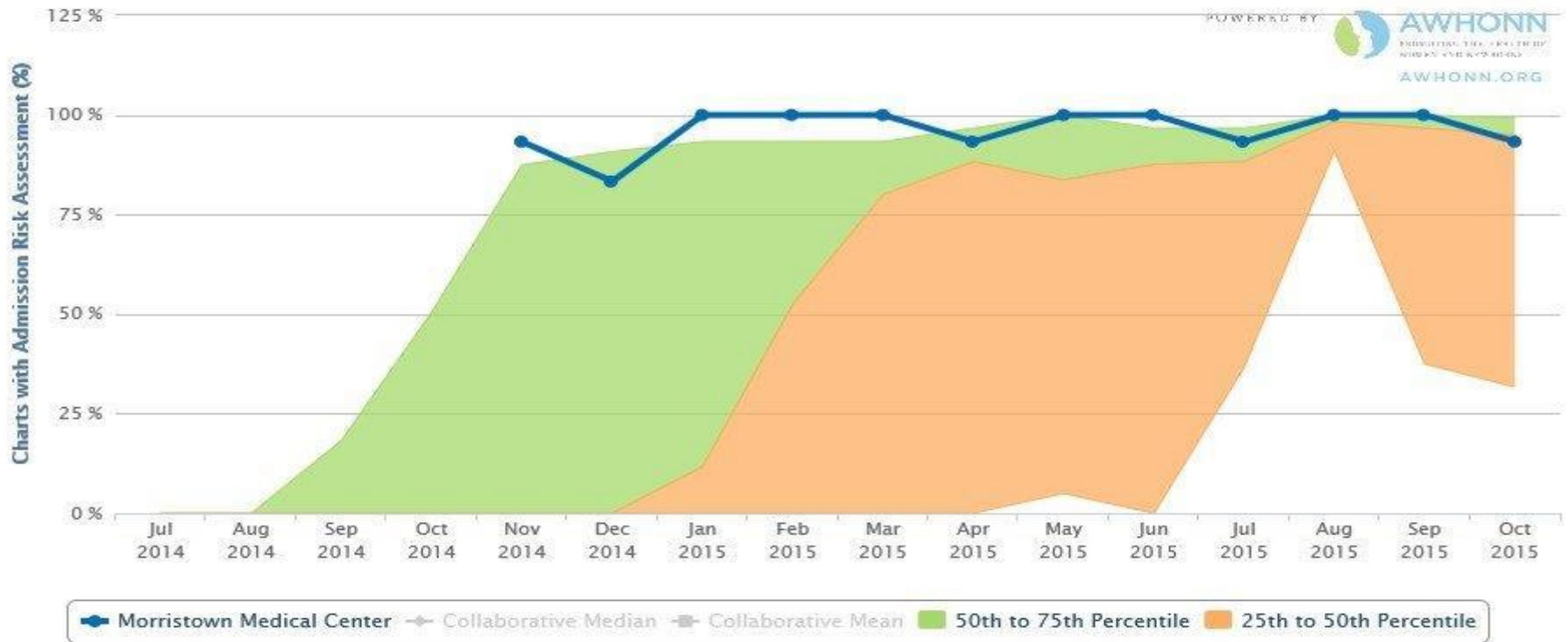


Provider Participation in Hemorrhage Drills



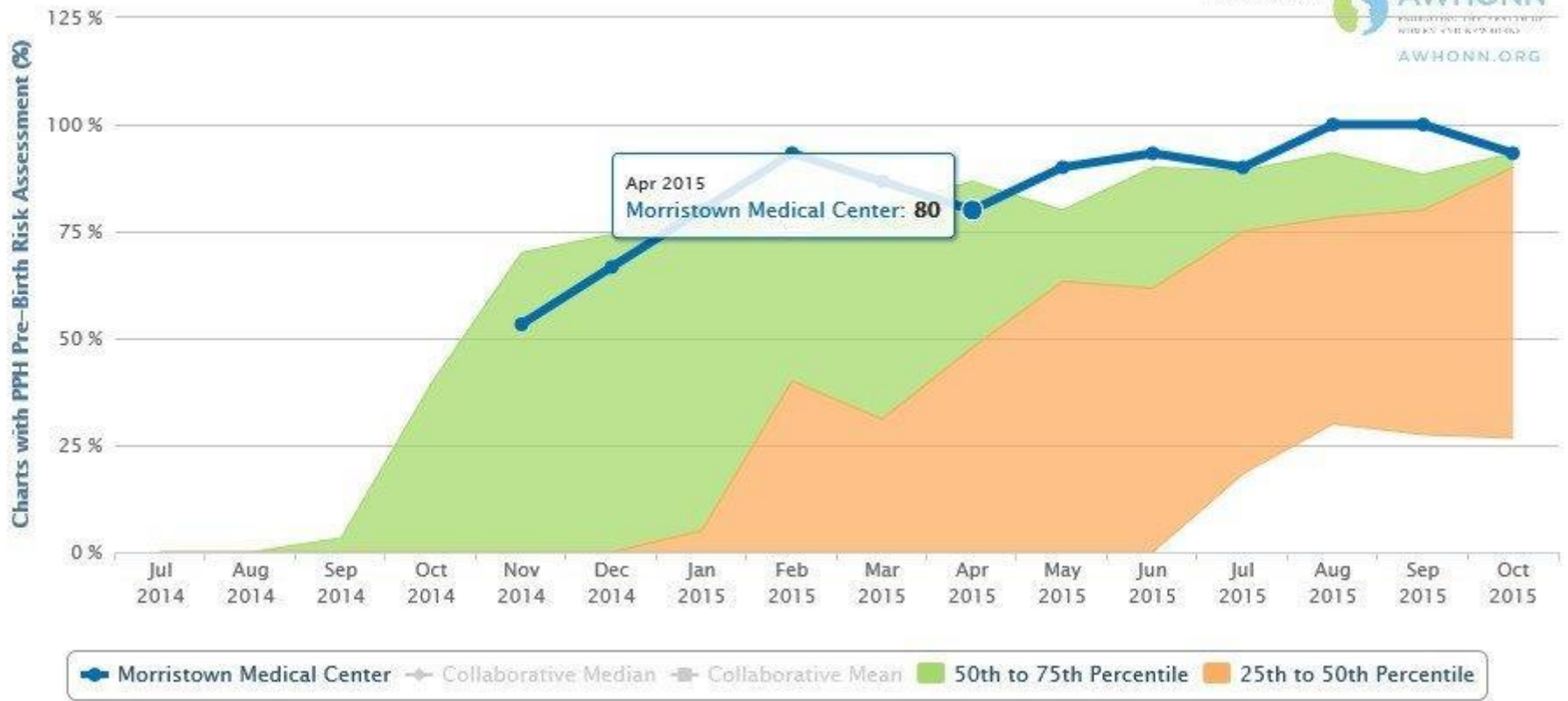
Recognition and Prevention

Admission Hemorrhage Risk Assessment



Pre-Birth Risk Assessment

POWERED BY  **AWHONN**
AMERICAN WOMEN'S HOSPITAL NURSING SOCIETY
 AWHONN.ORG



Post Birth Risk Assessment

POWERED BY  **AWHONN**
AMERICAN WOMEN'S HEALTH AND NURSING SOCIETY
 AWHONN.ORG



Quantified Blood Loss



Response - Protocols

- Postpartum Hemorrhage protocol in place – Reviewed and updated
- Fourth stage of labor policy already in place
- Massive Transfusion protocol in place – Reviewed and updated
- System Improvements
 - Multidisciplinary Obstetric Quality and Safety Committee

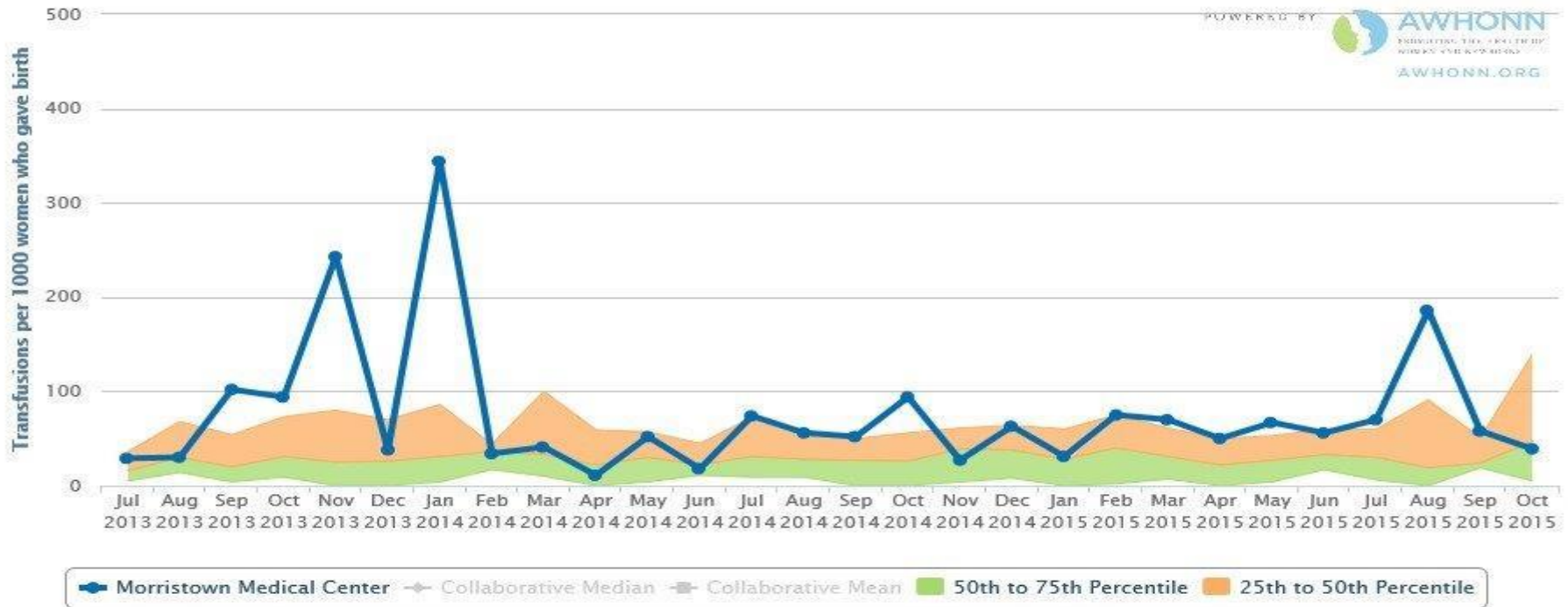
Reporting

Monitor in Obstetric Quality and Safety:

- Massive Transfusions
- Hemorrhages
- Transfusions
- ICU Admissions
- Return to Operating Room

Transfusion Per 1000 Births

MMC 39 vs. 81 PPH Average



Lessons Learned

- 75 Massive Transfusions over last 2 years
- 25 ICU admissions
- ICU Length of Stay decreased from 8 days to 1.5 days
- Rapid recognition of hemorrhage
- Staff and physicians have embraced QBL during hemorrhage
- Activate Massive Transfusion Protocol early
- Patients more stable at time of transfer

Barriers

- Other large projects being implemented
- Experiencing increased census
- Physicians reluctant to participate in Quantitated Blood Loss
- Inconsistent use of debriefing format in spite of focused education

Lessons Learned

- Don't try to change everything at once!
- Make sure the plan for change comes from the people doing the work!
- The PPH Safety Bundle helped us pull all the threads together into a comprehensive program.
- We're still not done!

Tools are available from multiple organizations
www.safehealthcareforeverywoman.org



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AIM Data Portal Login

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Patient Safety Bundles
and Tools

Safety Action Series

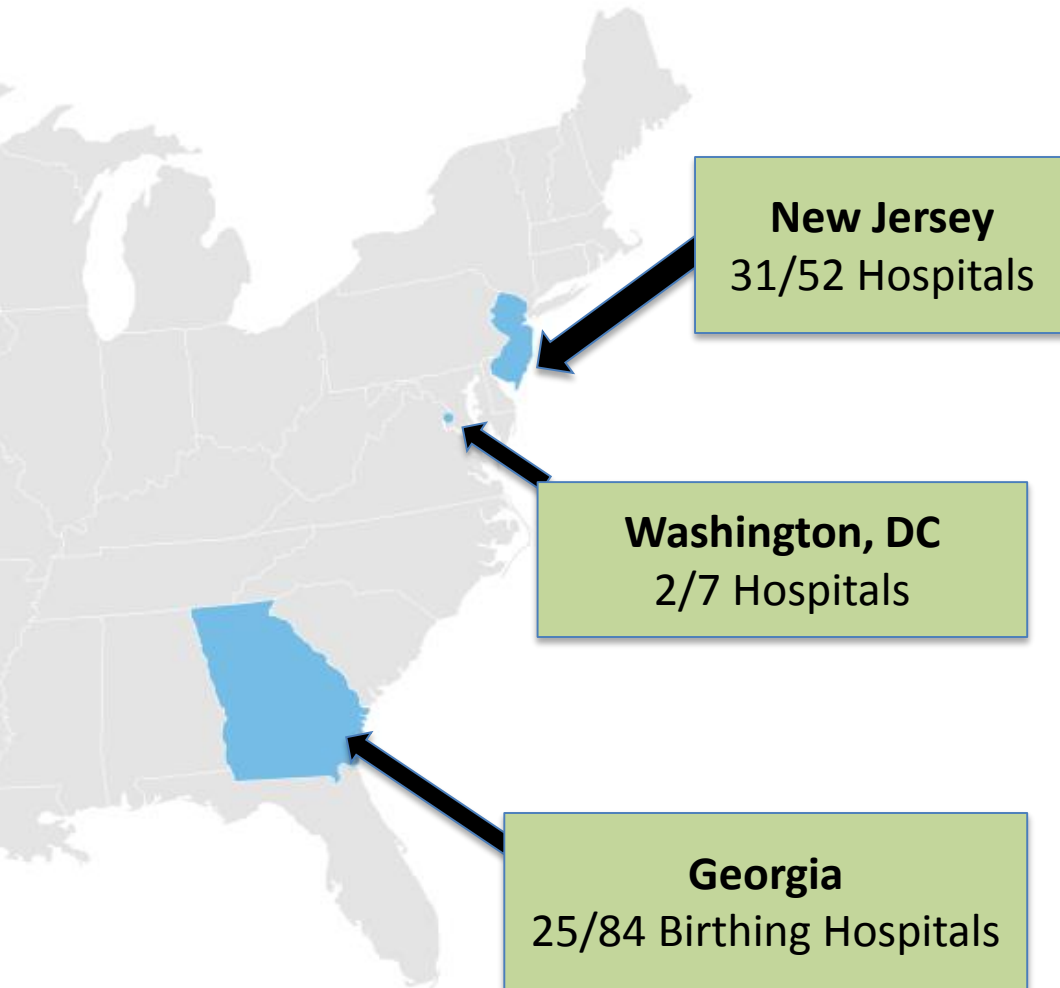
National Improvement
Challenge

AIM Program



Postpartum Hemorrhage Project

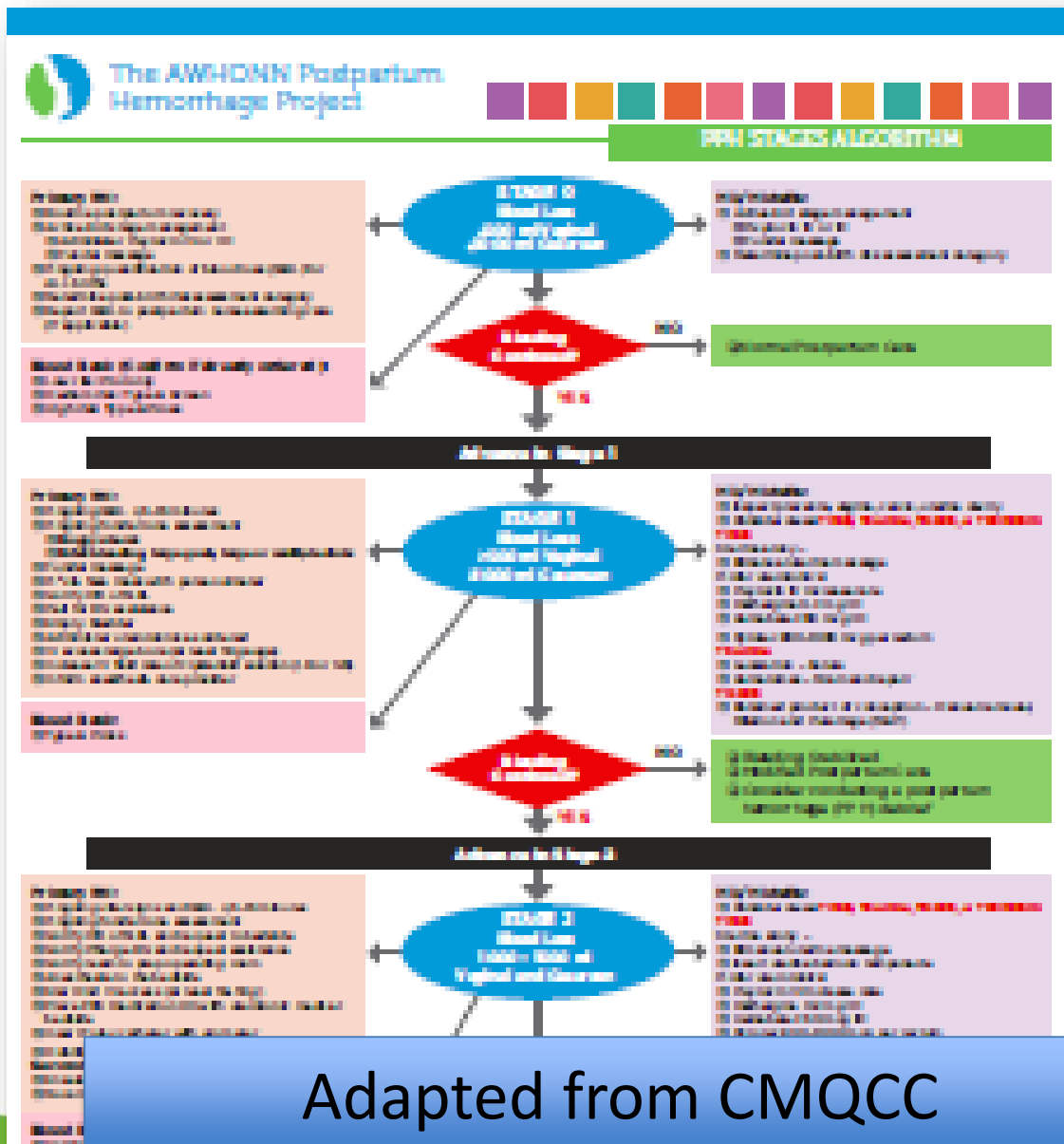
www.pphproject.org



Three geographic regions were selected based on the following criteria:

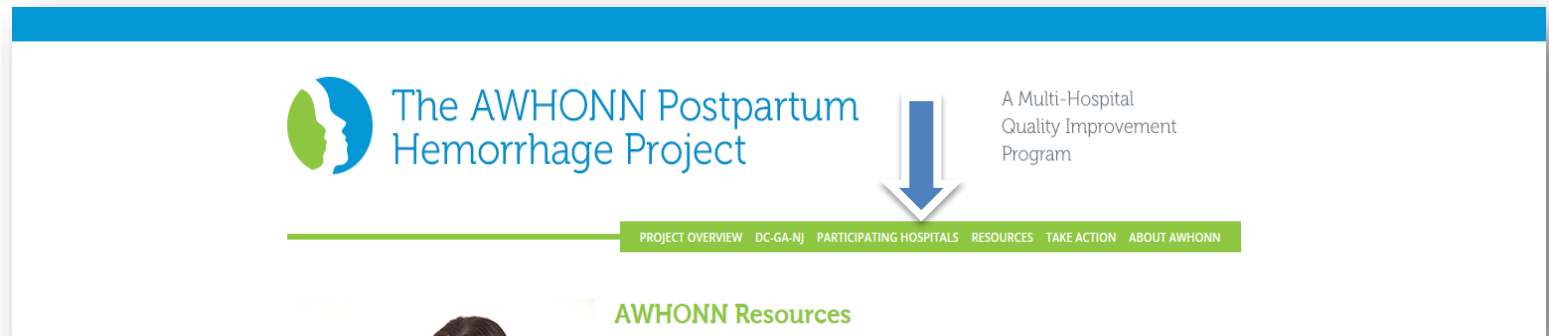
- High rates of maternal mortality
DC (51st), GA (50th), NJ (35th)
- No competing OB hemorrhage-related initiatives in the state
- Strong AWHONN leadership

AWHONN Algorithm



AWHONN's QBL Practice Brief

www.pphproject.org website – Resources tab

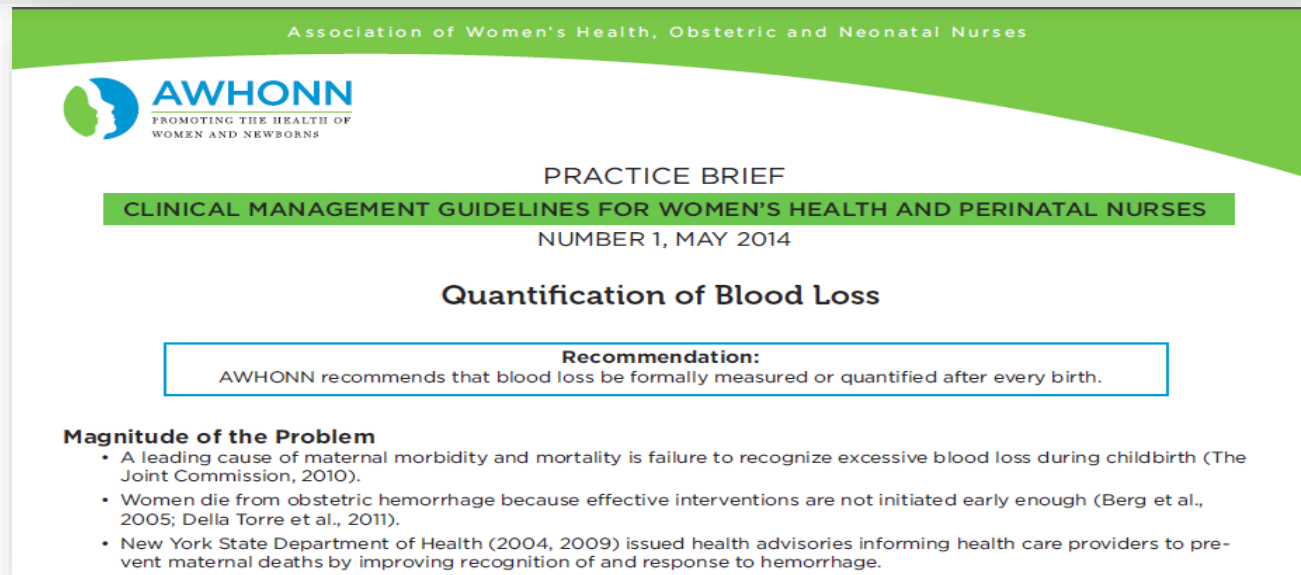


The AWHONN Postpartum Hemorrhage Project

A Multi-Hospital Quality Improvement Program

PROJECT OVERVIEW DC-GA-NJ PARTICIPATING HOSPITALS RESOURCES TAKE ACTION ABOUT AWHONN

AWHONN Resources



Association of Women's Health, Obstetric and Neonatal Nurses

AWHONN
PROMOTING THE HEALTH OF
WOMEN AND NEWBORNS

PRACTICE BRIEF

CLINICAL MANAGEMENT GUIDELINES FOR WOMEN'S HEALTH AND PERINATAL NURSES

NUMBER 1, MAY 2014

Quantification of Blood Loss

Recommendation:
AWHONN recommends that blood loss be formally measured or quantified after every birth.

Magnitude of the Problem

- A leading cause of maternal morbidity and mortality is failure to recognize excessive blood loss during childbirth (The Joint Commission, 2010).
- Women die from obstetric hemorrhage because effective interventions are not initiated early enough (Berg et al., 2005; Della Torre et al., 2011).
- New York State Department of Health (2004, 2009) issued health advisories informing health care providers to prevent maternal deaths by improving recognition of and response to hemorrhage.

AWHONN QBL Video



https://www.youtube.com/watch?v=F_ac-aCbEn0&list=UUPrOhL3Od7ZeFDq27ycS00g

AWHONN PPH Education Modules

Quantification
of Blood Loss

The AWHONN PPH education
modules will be released
nationally
CNE from AWHONN
CME from ACOG

Transfusion
Therapy

- *On-line
- *Self-paced
- *Team training
- *Certificate of completion

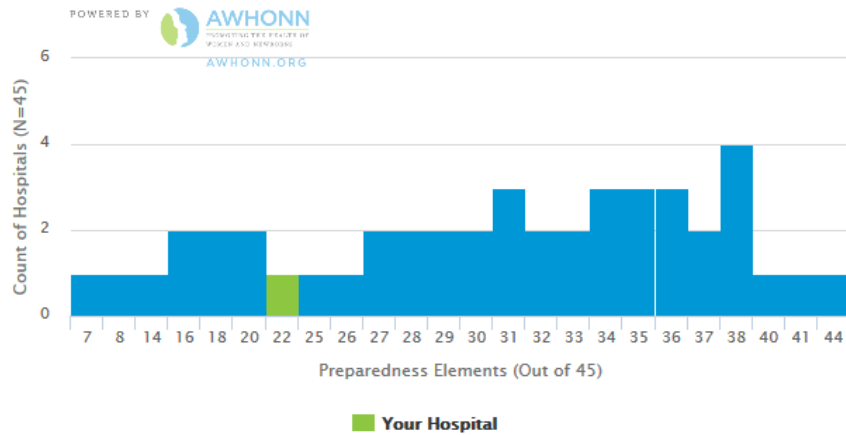
AWHONN Postpartum Hemorrhage Preparedness National Survey

- A Customized PPH Preparedness Report allows hospital leaders to compare their hospital's preparedness score to the scores of hospitals within their state and with all hospitals in the database. The preparedness elements are based on [national consensus recommendations](#) (hemorrhage bundle).
- A Customized Improvement Plan is developed by using hospital individual sub-scores.
- Live Reporting ensures that hospitals can continue to review their report as new data are entered by other participating hospitals.

AWHONN Postpartum Hemorrhage Preparedness National Survey

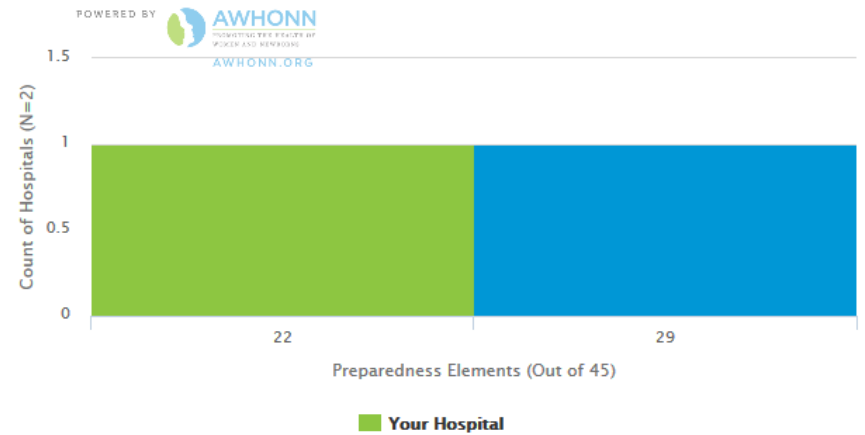
National Comparisons

Overall Number of Preparedness Elements Available ☰



State Comparisons (IN)

Overall Number of Preparedness Elements Available ☰





PPH Preparedness Survey Overview (continued)

- Questions are grouped into the following sub-categories:
 - Definitions, Policies & Procedures, and Protocols
 - Risk Assessments
 - Quantification of Blood Loss
 - Medications, Equipment and Medical Procedures
 - Debriefs, Drills, Support Programs, and Other QI Items

Questions?



“We agree that patient-centered and safe care of the mother and child enhance quality and is our primary priority...”

Quality Patient Care in Labor and Delivery:

A Call to Action. (2012) *JOGNN*, 41(1), 151-153.

Endorsed by AAFP, AAP, ACNM, ACOG, ACOG, AWHONN, SMFM