Safe Motherhood Initiative: Reducing Maternal Morbidity and Mortality in New York State

Cynthia Chazotte, MD, FACOG
Co-Chair, Safe Motherhood Initiative
Professor & Vice Chair
Department of Obstetrics & Gynecology and Women's Health Albert Einstein College of Medicine/Montefiore Medical Center
The ACOG District II Safe Motherhood Initiative will pave the way in standardizing protocols across obstetric hospitals in New York and the country.
Merck for Mothers Funding

We are a global healthcare leader working to help the world Be Well.
Safe Motherhood Initiative: Why New York?

- Large number of births
- High number of at-risk subgroups
- High maternal mortality rates
- ACOG District II history of work on SMI
MATERNAL MORTALITY PER 100,000 LIVEBORN INFANTS

Source: NLWC from Center for Disease Control and Prevention, National Center for Health Statistics 1999-2006
### SMI Strategy

<table>
<thead>
<tr>
<th>Comprehensive Educational Plan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Obstetric hemorrhage</td>
</tr>
</tbody>
</table>

#### Development of STANDARDIZED Maternity Safety Bundles/Protocols

| Key Elements/Triggers/Protocols | Checklists/Risk Assessment Tools |

#### Statewide Hospital Participation

| Hospital adoption of protocols | Standardization of care |
Maternity Safety Bundles

- **January 2013**: Clinical expert committee & workgroups formed
- **February – December 2013**: Experts developed, vetted, & in process of finalizing bundles via in-person quarterly meetings, conference calls, & e-mail
- **Spring 2014**: Bundle roll-out to hospitals using a “stepped wedge” approach for optimal data collection
Obstetric Hemorrhage Bundle

*Recommended elements for all New York hospitals:*

- Standard obstetric hemorrhage protocol/event checklist, and risk assessment
- Hemorrhage cart/kit with appropriate equipment
- Universal active management of the 3rd stage of labor
- Placenta accreta management
- Blood bank partnership – massive transfusion protocol (MTP) and rapid and sustained availability of blood products
- Drills (regularly performed)
Severe Hypertension Bundle

Recommended elements for all New York hospitals:

- Order sets for the use of labetalol and hydralazine for the initial management of acute severe hypertension in pregnant or post-partum (developed and available from ACOG).

- Any pregnant woman with preeclampsia complaining of shortness of breath, cough or with significant changes in pulse oximetry or respiratory rate are strongly encouraged to have a prompt medical evaluation with ongoing monitoring of her oxygen status.

- When pulmonary edema is diagnosed, an appropriate level of consultation from a maternal medicine specialist, an anesthesiologist or pulmonologist is strongly suggested.
Venous Thromboembolism Bundle

- In a recent review of maternal deaths pulmonary embolism was the single cause of mortality most amenable to reduction, by systematic change in practice *

- The Joint Commission has recommended:
  - the availability of pneumatic compression devices for patients undergoing cesarean delivery who are at high risk for pulmonary embolism.
  - the evaluation of post-partum patients, who are at high risk for thromboembolism, for low molecular weight heparin. Placement of compression devices should precede the beginning of surgery and continue until the patient is fully ambulatory.

Bundles & Buy-in

- Inclusion of hospitals of all levels of care
- Discussions with CEOs & CMOs; outreach by our experts & ACOG District leadership
- Identification of 3-person in-hospital SMI teams
- Identification of an SMI champion/liaison to fulfill project activities
- Financial compensation for project fulfillment, including data collection
SMI Accreditation Requirements

- **Implement** 3 maternity safety bundles – obstetric hemorrhage, severe hypertension in pregnancy, & VTE on a rolling basis
- **Enforce** evidence-based standards without exemption
- **Assist** hospitals who struggle & champion those who succeed
- **Accept** ACOG financial resources, education, and on-site assistance to accomplish these goals
SMI Accreditation Requirements

- Hospitals who fulfill these accreditation requirements will receive:
  - A seal of approval, branding & recognizing them as a “safe motherhood” hospital within their community
  - Ability to serve as a model hospital for the country
  - Hospital marketing tools such as videos & public service announcements
  - Financial compensation
Expected Results

✓ Large-scale implementation of the 3 bundles in all 130 obstetric hospitals in the state
✓ Direct engagement of all hospitals to update policies and protocols
✓ Expanded communications strategy and infrastructure to support professionals with QI activities (includes public PR campaign)
✓ Data measure collection (de-identified) within hospitals for severe mortality and morbidity
Strategies for Success

- ACOG to provide financial resources: supported by *Merck for Mothers* foundation grant
- ACOG to offer professional education: regional teaching days, webinars, and grand rounds
- ACOG building consensus for implementation: and dedicated support on site.
- Hospital leadership, academic, & obstetric leaders: sustained effort needed. ACOG to provide public service announcements highlighting hospital involvement in the Safe Motherhood Initiative
Thank You!

Questions:

Cynthia Chazotte, MD, FACOG
Co-Chair, Safe Motherhood Initiative
Professor & Vice Chair
Department of Obstetrics & Gynecology & Women's Health
Albert Einstein College of Medicine
Montefiore Medical Center