Safe Deliveries Roadmap
Learning Collaborative Webcast
April 30, 2015
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Presented at Washington State Hospital Association Safe Table Webcast April 30, 2015
Today

• Hear about Safe Deliveries Project updates

• Hear clinicians from Yakima Valley Memorial Hospital share practices and tips for successful medically indicated inductions.

• Discuss key indicators to track induction performance and ways to use them to drive improvements.
UPDATES
**Washington State Hospital Association**

**Safe Deliveries Evidenced-Based Roadmap**

**Pre-pregnancy**
- Increased use of preconception care services
- Improved health entering pregnancy
- Reduced risks from complications due to previous pregnancies

**Pregnancy**
- Fewer infant abnormalities and disabilities
- Less maternal and fetal complications
- More educated patients

**Delivery**
- Less maternal morbidity and mortality
- Fewer early deliveries
- Higher Apgar scores
- Fewer NICU admissions

**First Month**
- Healthier mothers and babies

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Time Line

2014:

• Delivery Phase
  • 17 hospital pilot
  • Region wide roll-out mid-year
  • Outcomes measures

• Pre-pregnancy, Pregnancy and Postpartum
  • Recommendations developed

2015:

• Delivery Phase
  • Process measures
  • Individual hospital touch base
  • More spread

• Pre-pregnancy, Pregnancy, Postpartum
  • Publish recommendations – June
  • Pilot project – Kick off in April 1st

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Labor Management Bundle
Data Collection

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Outcome measures: August/September 2014

• What?
  – NTSV Cesarean Section (Nulliparous, Term, Singleton, Vertex)
  – TSV Primary Cesarean Section (Term, Singleton, Vertex)
  – Induced Cesarean Section (Nulliparous and Multiparous)
  – Maternal admission to Intensive Care Unit
  – Maternal blood transfusions
  – Extended maternal length of stay
  – Operative vaginal delivery
  – Unexpected Newborn Complications measure (UNC)

• How?
  – CMDC
  – WSHA (OB COAP, internal reports and processes)
**Safe Deliveries Roadmap**

**NTSV C-section Rate for Nulliparous (first) Deliveries**

**Definition:** Numerator: Number of patients with a cesarean delivery among the denominator. **Denominator:** Number of deliveries among Nulliparous (first birth) women at term >=37 wks gestational age excluding breech presentations, twins and other multiples (NTSV).

**Data Sources:** WSHA-MDC (WSHA-Maternal Data Center) and WSHA-QBS (WSHA-Quality Benchmarking System) as of April 10, 2015

**Hospitals with Missing Data**
September-December 2014

- Capital Medical Center
- Cascade Valley Hospital and Medical Clinics
- Coulee Medical Center
- Deaconess Hospital/Rockwood Health System
- Forks Community Hospital
- Grays Harbor Community Hospital
- Highline Medical Center
- Kittitas Valley Healthcare
- Lake Chelan Community Hospital
- Mid Valley Hospital
- Newport Hospital
- North Valley Hospital
- Olympic Medical Center
- PeaceHealth St. John Medical Center
- PMH Medical Center/Prosser
- Providence Regional Medical Center Everett
- Providence St. Mary Medical Center
- St. Elizabeth Hospital, Franciscan
- Sunnyside Community Hospital and Clinics
- Toppenish Community Hospital
- Trios Health
- Valley Hospital/Rockwood Health System
- Walla Walla General Hospital
- Whidbey General Hospital
- Whitman Hospital and Medical Center

**Average C-section Rate:** 24.9%

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**Definition**: Numerator: Number of patients with a first cesarean delivery among the denominator. **Denominator**: Number of deliveries among women at term >=37 wks gestational age who have not had a prior cesarean delivery excluding breech presentations, twins and other multiples (TSV).

**Data Sources**: WSHA-MDC (WSHA-Maternal Data Center) and WSHA-QBS (WSHA-Quality Benchmarking System) as of April 10, 2015

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Do You Know Your Newborn Complication Rate?
Safe Deliveries Roadmap

Definition: Numerator: Number of newborns with severe or moderate complications among the denominator. Denominator: Number of term newborns >= 37 weeks gestational age without preexisting conditions (birth defects, prematurity, small for dates, multiples, and maternal drug use).

Data Sources: WSHA-MDC (WSHA-Maternal Data Center) and WSHA-QBS (WSHA-Quality Benchmarking System) as of April 10, 2015

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Process Measures: 2015

• What?
  – Labor induction practices
  – First stage labor practices
  – Second stage labor practices

• How?
  – OB COAP – January
  – WSHA – Pilot group began in March
  – CMDC – May/June
Evidenced Based Implementation
Barriers, facilitators and views about next steps to implementing supports for evidence-informed decision-making in health systems: a qualitative study

Moriah E Ellen, Grégory Léon, Gisèle Bouchard, Mathieu Ouimet, Jeremy M Grimshaw, and John N Lavis
Findings - Greatest Barriers:

- Limited resources (money and/or staff)
- Time constraints
- Negative attitudes toward change

Findings - Greatest Enablers:

- Genuine interest from decision makers (their willingness to invest money and resources)
- Genuine interest from clinical leaders
Hospital Check-In survey

https://www.surveymonkey.com/s/8W662RZ
Induction of Labor
Quality Improvement Metrics for Inductions

- Induced vaginal and cesarean section rates
- Parity
- Bishop scores
- Length of labor
- Complications
Featured Interview

Yakima Valley Memorial Hospital

• Aimee Borley - Nurse Manager Family Birthplace
• Dr. Kevin Harrington - Senior Attending OBGYN
• Dr. Roger Rowles – Perinatal Unit Medical Director
Yakima Valley Memorial Hospital - 2014

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Total Deliveries</strong></td>
<td>2,779</td>
</tr>
<tr>
<td><strong>Total Cesarean Rate</strong></td>
<td>17.7%</td>
</tr>
<tr>
<td><strong>Primary Cesarean Rate</strong></td>
<td>11.0%</td>
</tr>
<tr>
<td><strong>NTSV Cesarean Rate</strong></td>
<td>14.9%</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Metric</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOLAC Rate</td>
<td>38.7%</td>
</tr>
<tr>
<td>VBAC Rate</td>
<td>89.8%</td>
</tr>
<tr>
<td>Operative Vaginal Birth Rate</td>
<td>7.8% (80% vacuum, 20% forceps)</td>
</tr>
</tbody>
</table>
Yakima Valley Memorial Hospital - 2014

<table>
<thead>
<tr>
<th>Total Number of Inductions</th>
<th>768 (31% of all births)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medically Induced</td>
<td>539 (70% of all inductions)</td>
</tr>
<tr>
<td>Non - medical</td>
<td>229 (30% of all inductions)</td>
</tr>
</tbody>
</table>
### ELECTIVE INDUCTIONS

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Multiparous</td>
<td>198</td>
<td>86%</td>
</tr>
<tr>
<td>Primiparous</td>
<td>31</td>
<td>14%</td>
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</tbody>
</table>

- **Ripened**: 37
- **Unripened**: 188

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## Cesarean Rates for Elective Inductions

<table>
<thead>
<tr>
<th>Status</th>
<th>Cesarean Deliveries</th>
<th>Multiparous</th>
<th>Nulliparous</th>
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</thead>
<tbody>
<tr>
<td>Ripened 37</td>
<td>2 (5.4%)</td>
<td>2 (FTP)</td>
<td>0 (OVD)</td>
</tr>
<tr>
<td>Unripened 188</td>
<td>11 (5.8%)</td>
<td>6</td>
<td>5</td>
</tr>
</tbody>
</table>

### Cesarean Section Rate for all Elective Inductions

- 13/229 = 5.6%
Discussion/Questions
2015

- Roadmap Monthly (webcast) 7:00am – 8:00 am

<table>
<thead>
<tr>
<th>March 12</th>
<th>August 20</th>
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<tbody>
<tr>
<td>April 30</td>
<td>October 15</td>
</tr>
<tr>
<td>May 21</td>
<td>November 19</td>
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<tr>
<td>June 18</td>
<td>December 17</td>
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<td>July 16</td>
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- Safe Tables (in-person) 9:00am – 2:30 pm
  - September 8
Thank You!

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Safe Deliveries Roadmap Website
http://www.wsha.org/0513.cfm%20