Seton’s Perinatal Safety Project

Texas Senate Committee on Health and Human Services
April 15th, 2010
John Hellerstedt, MD

Seton Family of Hospitals
Seton’s Journey to Zero Preventable Harm

- Priorities for Action
  - Mortality reduction in the Intensive Care Unit
  - Peri-operative Safety
  - Falls and falls injuries
  - Skin pressure ulcers
  - Medication safety
  - **Birth trauma**
  - Hospital-acquired infection
Ascension Health HANDS Program

**Goal: Improving Clinical Aspects of Care**

HANDS = Handle All Neonatal Deliveries Safely

HANDS Elements—

- Standardize Electronic Fetal Monitoring
- Labor Induction & Augmentation Bundles (Oxytocin Use)
- Improved Communication: SBAR Tool (Situation-Background-Assessment-Recommendation)
- Simulation Training for Clinical Teams (Doctors & Nurses)
Seton’s Innovations

- Standardized order sets across all 6 hospitals that deliver obstetrical services
- Minimization of obstetrical intervention (reduced use of vacuum and forceps)
- Adoption of NICHD ‘common language’ and joint strip review (National Institute for Child Health & Human Development)
- Avoidance of iatrogenic (physician or therapy induced) prematurity
- Shoulder dystocia (“stuck shoulder”) team work program
- Navigated C-section program
- Focus 3th and 4th degree episiotomy lacerations
Instrumented Delivery (Vacuum/Forceps) Baseline

Instrumented Delivery Rate By Physician Seton Healthcare Network
Instrumented Delivery Rate Over Time

Operative Vaginal Delivery Rate
Seton Family of Hospitals
7/1/2000–6/30/2009
(den: total deliveries)
Induction Rates by Physician

Induction Rate by Physician
Seton Healthcare Network
More data points

- No elective induction before 39 weeks in 4 ½ years
- 100% Oxytocin Bundle compliance over the last 4 ½ years
Iatrogenic Prematurity Rate Declined from 2.2 per 1,000 to 1.3 per 1,000 live births; or from 22 cases per year to 13 cases per year for Seton.

Seton Family of Hospitals
Iatrogenic Prematurity Rate
(RDS & TTN for 37-38 Weeks GA w/ NICU Admissions)
7/1/2000--6/30/2009

Seton Family of Hospitals
FY08-FY09 Mean = 0.13%
Network Birth Trauma Rate
Declined from 3 per 1,000 to 0.2 per 1,000 live births; or
from 29 cases a year to 2 cases a year for Seton.
## Financial (NICU) Implications of Birth Trauma Cases

<table>
<thead>
<tr>
<th>Payor</th>
<th>Year(s)</th>
<th>Billed Amount</th>
<th># of Cases</th>
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<tbody>
<tr>
<td><strong>HMO/PPO</strong></td>
<td>FY01-03</td>
<td>$1,967,323.07</td>
<td>46 (15.33/yr)</td>
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<td>FY04</td>
<td>$73,901.00</td>
<td>7 (7.0/yr)</td>
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<td>FY05-07</td>
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<td>4 (1.33/yr)</td>
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<td>FY08-09</td>
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<td><strong>Medicaid</strong></td>
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<td>31 (10.33/yr)</td>
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<td>2 (2.0/yr)</td>
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<tr>
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<td><strong>Blue Cross</strong></td>
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<td>FY08-09</td>
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Questions?

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