Leadership teams from Texas Children’s Hospital and Houston Methodist Hospital came together to...

- Develop and implement a training and education plan
- Identify any needed changes to existing processes and structures
- Develop testing of the new coverage model and revise plan as needed

An Innovative Educational Endeavor: Enhancing the Skills of a Delivery Room Response Team

Nadene Dukes, MSN, RN, NE-BC; Leigh Ann Cates, PhD, APRN, NNP-BC, RRT-NPS,CHSE
Susan E. Puls, DNP, MSHSA, RN, NE-BC, C-EMF

Background

Organizations today are looking for innovative, cost-effective ways to promote high quality programs and services; hospital partnerships and collaborations are attractive options. Texas Children’s Hospital (TCH) and Houston Methodist Hospital (HMH) executed a systems-level agreement to ensure the right level of neonatal coverage is provided by TCH.

Project Aim

Provide safe, efficient and comprehensive management of the neonate during deliveries at HMH utilizing an innovative educational approach to support a new collaborative neonatal coverage model.

Methods

Multidisciplinary teams with representatives from TCH and HMH collaborated to plan and implement processes needed to support a new model of neonatal coverage for deliveries at HMH. Methods included:

- Developing a Delivery Room Response Algorithm and “Gold Standard” Video for use by clinicians in decision making.
- Planning and implementing an education plan, which included both didactic and simulation lab components.
- Evaluating existing processes and structures and modified where needed.
- Performing in situ drills to test the new coverage model, which included team debriefing in order to revise and modify the plan as needed.

Deliver Room Response Algorithm

Houston Methodist Hospital (HMH) Delivery Room Response Algorithm

- Low Risk Deliveries
- High Risk Deliveries

Background

Multidisciplinary teams with representatives from TCH and HMH collaborated to plan and implement processes needed to support a new model of neonatal coverage for deliveries at HMH. Methods included:

- Developing a Delivery Room Response Algorithm and “Gold Standard” Video for use by clinicians in decision making.
- Planning and implementing an education plan, which included both didactic and simulation lab components.
- Evaluating existing processes and structures and modified where needed.
- Performing in situ drills to test the new coverage model, which included team debriefing in order to revise and modify the plan as needed.

Clinical Outcomes

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Births</td>
<td>559</td>
<td>493</td>
</tr>
<tr>
<td>Level II NICU Admissions</td>
<td>74</td>
<td>52</td>
</tr>
<tr>
<td>Level II NICU Admission Rate</td>
<td>13.2%</td>
<td>10.5%</td>
</tr>
<tr>
<td>Deliveries Attended by Provider</td>
<td>115</td>
<td>86</td>
</tr>
<tr>
<td>Deliveries Attended by Provider</td>
<td>21%</td>
<td>17%</td>
</tr>
<tr>
<td>Transports to TCH (&lt; 24 hours)</td>
<td>11</td>
<td>5*</td>
</tr>
<tr>
<td>Transports to TCH (&lt; 24 hours)</td>
<td>2%</td>
<td>1%</td>
</tr>
</tbody>
</table>

*Includes 1 transport after hours by MNRT

Next Steps

- Plan Notification Process
- TCH MNRT Education
- In Situ Drills
- Decision to Go-live
- Go-Live with Dual Coverage
- Processes Refined
- Go-Live without Dual Coverage

Contact Info

Texas Children’s Hospital
6621 Fannin Street
Houston, Texas 77030
www.texaschildrens.org
ndukes@texaschildrens.org
lacates@texaschildrens.org

Houston Methodist Hospital
6565 Fannin Street
Houston, Texas 77030
www.houstonmethodist.org
sepuls@houstonmethodist.org

© Texas Children’s Hospital. All rights reserved.