Indiana University Health

The Unthinkable: Using Risk Resilience to Eliminate Newborn Falls

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Objectives

- Describe how risk resilience is used to analyze newborn fall events
- Discuss prevention strategies for newborn falls

Disclosure

- I have no conflict of interest
Patient Population and Hospital

- Mother-Baby Unit caring for stable postpartum mothers and healthy newborn infants
- Indiana University Health Methodist Hospital in Indianapolis, Indiana
  - Delivers 3,000 infants annually
  - Urban Level One Trauma Center
  - Culturally diverse patient population
  - Baby-Friendly Hospital Designation

Unit Environment

- 26-bed unit
- Newborn nursery with rooming-in emphasis
- RN staffing ratio
  - 1:3 couplets 16 out of 24 hours per day
  - 1:4 couplets 8 out of 24 hours per day

Event Analyzed based on Outcome

- Incident rate is low due to lack of national reporting
- Oregon Patient Safety Committee demonstrated 1 fall per 2,500 births in a retrospective review
- Intermountain Healthcare System demonstrated 14 falls per 88,000 births
- IU Health Methodist Hospital demonstrated
  - 5 incidents within a 6-month timeframe
  - 5 falls per 1,481 births
  - Average of 62 days between events
Analysis of Event

- Leadership initiated a tactical response to examine the failures in infant falls
- Reviewed variables of the 5 events to identify patterns:
  - Age of mom
  - Weight and height of mom
  - Maternal gravida/para
  - Gestation and amount of prenatal care
  - Birth type
  - Date and time of infant fall
  - Baby weight
  - Maternal medical history including smoking and/or drug use
  - Recent medication administration including narcotics
  - Breast or bottle feed infant
  - Maternal lab values of hemoglobin and hematocrit

Cross Analysis of Falls

Review of the Literature and Summary of Case Findings

Risk Factors from Literature:
- 2-3rd post delivery night between 12 am and 9 am
- Cesarean section
- Received opioids
- 18-28 years old
- Breast feeding

Findings based on Risk Factors:
- 100%
- 100% SVD
- 40% received opioids
- Average age 23 (min 15; max 27)
- 80% breast fed
Hidden Assumptions

- Co-bedding
- Baby-Friendly status not a factor
- Maternal fatigue a huge indication in the pattern of infant falls
  - Did not assume patient was able to realize or recognize their own fatigue
- Average BMI 35 (morbid obesity >30), Mn 32 and max 43

Pre-designed Defenses

- Patient education “sleep safety”
- Bedside signage communicating the risks of falling asleep while holding a newborn

**Strong or weak defense?**

Pre-designed Defense

- Mother’s nap time
  - Afternoon and/or night nap time
  - Verbal contract with patient for time to sleep with no interruptions
  - Privacy sign placed on door to patient room
  - Baby rooms-in with mother during nap time
Strengthening the Defense

• Students and RNs taught to recognize signs of fatigue and partner with mother to safely place the baby in crib
• Nap time initiated around the mother’s need for sleep, not set intervals
• Shift safety huddles to identify mothers who might be at risk. Team heightened awareness of patients at risk.

Pre-designed Defense

• Hired 5 student nurses (11 pm-7 am)
  - Mother’s helper
  - Student nurses rounded during the night to identify mothers displaying signs of fatigue
    • Deliberate interventions with mothers when they became fatigued
  - Bed checks for infants
  - Sensitivity to mothers who were morbidly obese

Highly Reliable Processes

• 311 days (as of 11/13/2012) without an infant fall
• Instead of “just an event,” it is really about the nursing care we give
• Risk of infant falls now woven into culture of the unit
• Mindset: It is not going to happen again
Thank you!
Questions?
Contact me at jhodges3@iuhealth.org or 317.962.5322

References