



Indiana University Health

The Unthinkable: Using Risk Resilience to Eliminate Newborn Falls

Kim Hodges, MSN, RN
Clinical Manager, Mother-Baby Unit, IU Health Methodist Hospital

2/11/2013

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Objectives



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

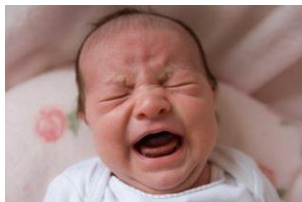
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Disclosure



- I have no conflict of interest



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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

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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

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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

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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
 - Onset of labor and delivery time
 - Maternal medical history including smoking and/or drug use
 - Recent medication administration including narcotics
 - Breast or bottle fed infant
 - Maternal lab values of hemoglobin and hematocrit
 - Baby weight
 - Date and time of infant fall
 - Birth type
 - Epidural use
 - Maternal home medications

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Cross Analysis of Falls



| Infant Falls on Mother-Baby | | | | | |
|-----------------------------|-------|-------|-------|-------|-------|
| | Mom 1 | Mom 2 | Mom 3 | Mom 4 | Mom 5 |
| Age of Mom | | | | | |
| Weight of Mom | | | | | |
| Height of Mom | | | | | |
| Gravida/Para | | | | | |
| Gestation | | | | | |
| Prenatal Care | | | | | |
| Birth Type | | | | | |
| Epidural | | | | | |
| Onset of Labor | | | | | |
| Full Dilation | | | | | |
| Delivery of Infant | | | | | |
| Baby Weight | | | | | |
| Admission & DIC dates | | | | | |
| Fall Date | | | | | |

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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

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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). Min 32 and max 43

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Pre-designed Defenses



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



Strong or weak defense?

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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



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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.

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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



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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



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Thank you!
Questions?

Contact me at khodges3@iuhealth.org or 317.962.5322

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References



- Galuska, L. 2011. Prevention of in-hospital newborn falls. AWHONN: 2/3: 59.

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