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Arianna Casper BSN, RN

Brianna Gammel BSN, RN

Megan Horensky BSN, RN

Meghan Kaminski BSN, RN

Katherine Mitchel BSN, RN

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# Developmental Care Rounding in the Neonatal ICU

Arianna Casper BSN, RN; Brianna Gammel BSN, RN; Megan Horensky BSN, RN; Meghan Kaminski BSN, RN; Katherine Mitchel BSN, RN

Lehigh Valley Health Network, Allentown, Pennsylvania

## BACKGROUND

- Pre-term infants are at risk for long term disabilities
- The neonatal ICU environment can be problematic for infants' brain development
- Providing neuroprotective and appropriate developmental care throughout their hospitalization can help improve the infants' long term outcomes

## PICO

How does implementing a bedside rounding intervention improve the compliance level of providing developmental care in the NICU?

- **P:** NICU nurses
- **I:** Bedside rounding using the developmental rounding checklist
- **C:** No bedside rounding
- **O:** Compliance with developmental care

## EVIDENCE

- An article emphasizes the importance of neurodevelopment and understanding how to provide individualized, developmentally appropriate neuroprotective care to each infant to help achieve optimal outcomes (Altimier, L. & Phillips, R, 2016).
- A study found that nurses are performing the appropriate developmental care to the infants (Valizadeh et al., 2013)

## OUTCOMES

### Developmental Rounding Checklist

(\*\* one point given for each check mark)

Infant's estimated gestational age: \_\_\_\_\_ Infant's corrected gestational age: \_\_\_\_\_

Noise:

- Low voices ( )
- Talking to infant during care time ( )
- Answering alarms quickly to avoid unnecessary alarm sounds ( )
- Quietly closing isolette doors/crib drawers ( )

Lighting:

- Lights on during care/off in between care ( )
- Lights dimmed ( )
- If applicable:
  - Eyes protected if using phototherapy ( )
  - Isolette covered ( )

Positioning:

- Positioning aids: Prone roll, Frog, dandleroo, Other nesting device \_\_\_\_\_ ( )
- Or
- Back to sleep ( )

Pacifier: (only check one option)

- Green (newborn) ( ) Purple (preemie) ( ) Clear (wee-pee) ( ) None ( )

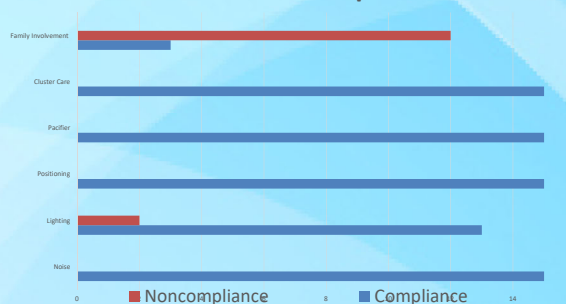
Cluster Care:

- Care is clustered (done all at once) ( )
- Labs are done during care time ( )

Family Involvement:

- Are parents educated on developmentally appropriate care? ( )
- Do parents understand containment? (Proper hand placement, no stroking) ( )

### Nurses' Compliance



- Our findings show that NICU nurses are 100% compliant with clustering care, using the correct pacifier, positioning and noise and needed no further education.
- 86% of NICU nurses were compliant with lighting, however findings may be skewed due to infants requiring close monitoring with umbilical arterial and venous access.
- 2% of NICU nurses were compliant with family involvement, which is skewed due to lack of family presence during night shift during which all data was collected.

## IMPLEMENTATION

- Assessment of the nurses' performance of developmental care prior to rounding with the checklist
- Review compliance performance with nurse at the bedside (rounding) using the developmental checklist
- Round again after educating on checklist to determine compliance with developmental care
- Distributing a laminated "Developmental Care Facts" sheet by the bedside to help remind

## NEXT STEPS

- Reinforce education on proper developmental care of infants in the NICU
- Perform rounds on dayshift to attain more inclusive data on family involvement and assess more nurses

## REFERENCES

Altimier, L., & Phillips, R. (2016). The neonatal integrative developmental care model: advanced clinical applications of the seven core measures for neuroprotective family-centered developmental care. *Newborn and Infant Nursing Reviews*, 16(4), 230–244. doi: 10.1053/j.nainr.2016.09.030

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