Neonatal Integrative Developmental Care Model

An evidence-based framework that offers a holistic approach to developmentally appropriate and family-centered care for infants and families in the NICU.

Philips’ Mother and Child Care’s philosophy is to consider these Core Measures in the development of its products and solutions.

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Partnering with families is essential as the care received from the mother and father helps shape the infant’s emotional and cognitive development.¹

Neonatal Integrative Developmental Care Model

PARTNERING WITH FAMILIES

- Optimizing nutrition
- Healing environment
- Positioning & handling
- Protecting skin
- Minimizing stress & pain
- Touch
- Smell
- Taste
- Sound
- Safeguarding sleep

¹ Konrad & Phillips IV, 2010. All rights reserved.
Wee Care program

The Wee Care program focuses on family-centered care and developmentally appropriate ways to hold, feed, bathe and interact with the infant.
Máxima Medical Center and Philips collaborated on the Wee Care Neuroprotective NICU program, an 18-month clinical education and transformation program, which helps hospitals develop family-centered neuroprotective developmental care practices in the NICU.
Partnering with Families resources

List of references


Videos

› Mercy Springfield Wee Care

› The Sacred Hour, Máxima Medical Centre, Veldhoven, the Netherlands
Premature babies need assistance with appropriate handling and proper positioning that mimics the womb, nurtures growth, and enhances musculoskeletal development.

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NICU

Core Measure:
Positioning & Handling

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• Professional Development programs provide the latest in evidence-based practices on positioning techniques for NICU care providers.

• Positioning products support midline orientation, flexion, and the containment that the premature infant needs for enhanced neurosensory and muscle development.

• WeePee diapers are sized for the smallest infants to support proper hip alignment.
Positioning provides appropriate containment to decrease unnecessary energy expenditure, calorie depletion, oxygen consumption and stress.\(^1\)
Philips’ positioning products are used to achieve flexion, containment, and midline orientation for premature babies in the hospital.
Positioning and Handling resources

List of references


PDFs

› Product poster

Videos

› Philips NICU Positioning
In the premature baby, the skin is not fully developed, leaving the neonate vulnerable to infection, hypothermia, and increased water loss.

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Clinical education focuses on best practices for developmentally appropriate bathing, touch, diapering, incision care, and use of adhesives.
BiliChek protects skin by reducing the number of heel sticks.
Supportive positioning can be enhanced by using positioning aids and gel products to help reduce pressure points.¹
Wee Sight transilluminator can help to locate tiny veins for improved intravenous access.
Protecting Skin resources

List of references

1. A NeuroDevelopmental Care Guide to The Premature, Fragile or Sick Infant by Dana Fern. Pages 20-23.
Continuous stress and pain may negatively influence brain development.¹

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- Minimizing stress & pain

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A non-invasive bilirubin assessment

Provides flexibility in monitoring jaundice in the hospital while helping to manage the costs of hospital stays and reducing readmissions.
Education programs focus on the Developmental Care practices that help caregivers to address the issues associated with stress and pain.²
Minimizing Stress & Pain resources

List of references


Videos

Philips BiliChek In-Service Tutorial
Nutritional support, which is important for growth and development, is challenging for premature infants whose feeding skills are not mature.

Neonatal Integrative Developmental Care Model
Breastfeeding support products can be introduced in the NICU and can continue to support mom through the transition home.
Non-nutritive sucking with pacifiers facilitates the development of sucking behavior and the transition from gavage to breast or bottle feeding.¹
Optimizing Nutrition resources

List of references

Uninterrupted sleep and sleep cycles are essential to create long-term memory circuits, preserve precious calories needed for growth, and correlate with improved outcomes.¹

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Clinical education encourages Kangaroo Care and clustering activities around the sleep-wake cycle.
Safeguarding sleep is essential for neurosensory development.¹
Safeguarding Sleep resources

List of references

Nicu Core Measure: The Healing Environment

The center of the model represents elements of the Core Measure known as the healing environment, which incorporates the sensory system and the physical environment.

Our Wee Care education program focuses on the Core Measures represented in the Integrative Developmental Care Model and helps hospitals to implement customized quality improvement initiatives around the Core Measures selected by the institution.
Premature babies are exposed to fluctuations in temperature, touch, light, sound, smell, oxygen and nutrients, which can negatively affect the development of the brain.¹
Philips’ Mother and Child Care’s philosophy is to consider these Core Measures in the development of its products and solutions.
The Healing Environment resources

List of references