

Partnering to Improve Health Care Quality for Mothers and Babies

NON-PHARMACOLOGIC MANAGEMENT

NAS Initiative Webinar May 21, 2019

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Innovative Strategies For Non-Pharmacologic Management of The NAS Infant

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This speaker has no conflicts of interests to report

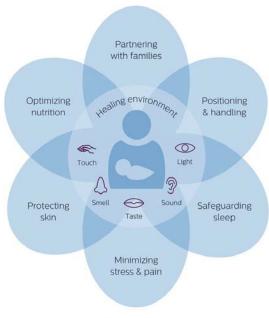


Learning objectives

- Verbalize 4 non-pharmacologic techniques used with infants
- Verbalize goals of non-pharmacologic techniques
- Verbalize 2 techniques to modify the environment of the NICU
- Verbalize 2 emerging non-pharmacologic techniques

Why are these techniques important?

7 Core Measures of Neuroprotective care



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7 core measures

- Protected sleep
- Healing environment
- Protecting skin
- Minimize pain and stress
- Optimize nutrition
- Positioning and Handling
 - Containment, Alignment, S2S, Swaddle bath
- Family Centered Care
 - Do with-include-mentor

• Non-pharmacologic care is defined as....

Non-pharmacologic Techniques

- Modification of the Environment
- Neuroprotective Care
- Breastfeeding
- Neuropromotion
- Vertical Rocking
- Swaddle Bath
- Infant massage and Therapeutic Touch
- Skin to Skin/Kangaroo Care

Goals of Non-pharmacologic Intervention

- To decrease symptoms of withdrawal
- To promote family centered care
- To reduce length of stay
- To prevent abnormal development or sequalae
- To decrease need and length of pharmalogic intervention

Modification of the Environment

- Decrease noise
- Decrease light
- Rooming in
- Mother as primary caregiver
- Swaddle
- Cuddlers
- NNS



Dow, Kimberly. Et al. Neonatal Abstinence Syndrome Clinical Practice For Ontario. Popul Ther Clinical Pharmacol. Vol 19(3):e488-e506.

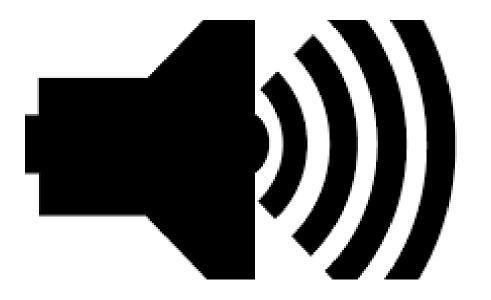
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Sound and Light





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Rooming in and Parent as the Primary Caregiver



Google image

Grossman MR, Lipshaw MJ, Osborn RR, Berkwitt AK. "A novel approach to assessing infants with neonatal abstinence syndrome. Hospital Pediatrics. Jan 2018; 8(1):1-6.

Swaddle



Cuddlers



Neuroprotective Care

- Approach of the infant
- 2-person clustered care
- Rubbing versus patting to elicit a burp

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Maguire, Denise. Care of the infant with Neonatal Abstinence Syndrome. Strength of Evidence. 2014. J perinatal Neonatal Nursing. Vol.28(3). 204

2 Person Approach



1 Person Approach



Breastfeeding



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Cleveland, L.M. Nurturing care of Mother-Infant Dyads Impacted by Opioid Use. . Creative Therapy Consultants. On -line Education.

Neuropromotion

- Developmental Stimulation
- Tummy Time
- Sensory Play
- Interaction



Google image

Vertical Rocking







Trager, Angela L.(2016) The Role of the Developmental Therapy Team in the Non-pharmacologic management of the Infant with NAS. April 25, 2016. Cleveland Clinic. Ohio Perinatal Quality Collaborative. Files.

Google images

Swaddle Bath





https://youtu.be/d w4Hg0Vl5c? t=10s

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Infant/Neonatal Massage



Flicker.com

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Ramsey, T. An infant's First massage in the NICU: A case report. Newborn and Infant Nursing Reviews, Vol 1,4 (December), 2001:229-234

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Benefits of Massage

- Increased digestion
- Improved tone
- Decreased stress behaviors
- Positive Parent/Infant interaction
- Decreased cortisol level
- Increased weight gain

Contradictions of massage

- Infection
- Bleeding Disorders
- Photo Therapy
- Skin Disorders
- Medical instability
- Fever

Barriers To massage

- Time Concerns
- "Minimal touch" is best
- Lack of education
- Lack of knowledge of how to perform massage

Types of Oils Used

- Grape See Oil
- Mineral Oil
- Coconut Oil



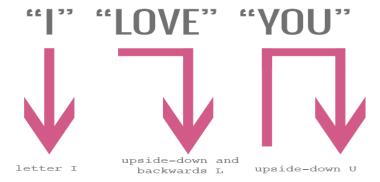
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Video of ILU Massage



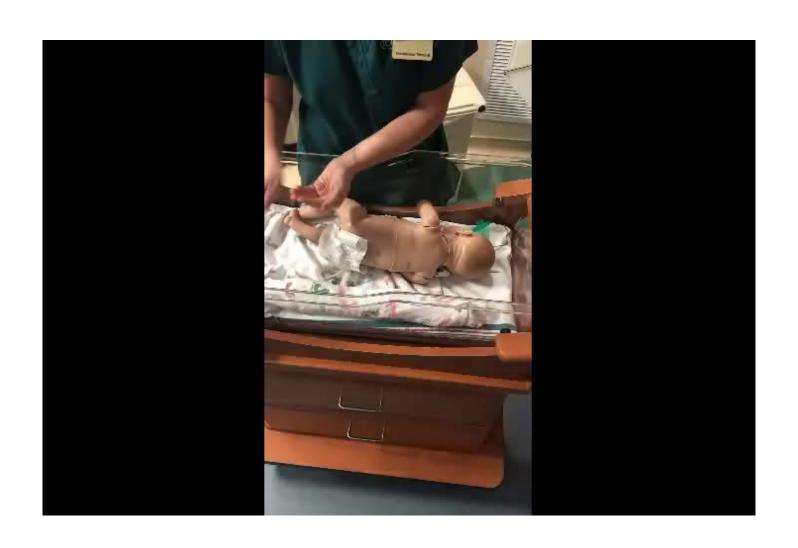




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Waitzman, K.A. Listening Touch massage. Creative Therapy Consultants. On-Line Education.

Video Of Massage



Skin To Skin/Kangaroo Care

Google images





Cleveland, Lisa M. Nurturing of Mother-Infant Dyads Impacted by Opioid Use. Creative Therapy consultants. Lecture. On Line Education. Dow, Kimberly. Et al. Neonatal Abstinence Syndrome Clinical Practice For Ontario.Popul Ther Clinical Pharmacol.Vol 19(3):e488-e506. Grisham L, Kane M. "A new approach to NAS: home in 6 days." Presented at National Perinatal Association, accessed at http://www.nationalperinatal.org/resources/Documents/2018%20Conference/Thursday/A3%20-%20Grisham%20and%20Kane%20-%20Home%20in%20Six%20Days NPA.pdf

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Waitzman, K.A. Infant – Driven caregiving. Creative therapy Consultants. On-line Education.

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Emerging Non-Pharmacologic Techniques

- Aromatherapy
- Accupuncture
- Non-oscillating waterbed
- Vibroactile Stimulation
- Neonatal Hydrotherapy



Maguire, Denise. Care of the infant with Neonatal Abstinence Syndrome. Strength of Evidence. 2014. J perinatal Neonatal Nursing. Vol.28(3). 204-211.

Neonatal Hydrotherapy



https://youtu.be/oAOu0kIL60c?t=1m40s

Hydrotherapy In The NICU. Sharp Mary Birch Uses The Healing Power of Water To Help The Tiniest Patients. www.sharp.com/news. YouTube.com

In Conclusion.....

Non-Pharmacologic Intervention:

Warrants More Research

Minimal Costs

Numerous benefits

Maguire, Denise. Care of the infant with Neonatal Abstinence Syndrome. Strength of Evidence. 2014. J perinatal Neonatal Nursing. Vol.28(3). 204-211.

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Questions?
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Q & A

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