### clOUDi Infant Action Plan

### **Perinatal Quality Collaborative of North Carolina**

Provide the facilitation, support and education necessary to deliver optimal care for infants with neonatal abstinence syndrome (NAS)/neonatal opioid withdrawal syndrome (NOWS) in the hospital and for the first six months of the newborn period. Aim: • Create a multidisciplinary hospital and community-based team focused on providing a standardized approach to the identification, evaluation, treatment, discharge and follow up of the infant with NAS/NOWS / • Hospitals will standardize the non-pharmacologic and pharmacologic care of the infant with NAS/NOWS using practices based either on Eat Sleep and Console (ESC) or the modified Finnegan scoring system. / • Hospitals will increase partnership with families or guardians in the care of NAS infants. Every infant with NAS/NOWS will have the opportunity to participate in a Safe Plan of Care. At discharge infants with NAS/NOWS will be referred directly by the hospital based medical team to a community based medical team that will be responsible for ongoing newborn acute and routine care, and support for families or guardians.

econdary Aim	Primary Drivers	Secondary Drivers
Proper	1.1 Each nursery has a protocol that	1.1.1 Identification of eligible infants for toxicology testing
dentification	defines indications and procedures for	1.1.2 Type of toxicology testing
	screening for infants at risk for	1.1.3 Process for communicating results to mother or caregive
	withdrawal	1.1.5 Criteria for Referral to Social Work and CMARC
		1.1.6 Criteria for CPS referral
		1.2.1 Toxicology testing should be completed on all the following
	1.2 Each nursery develops criteria for	infants:
	toxicology testing and referral of infant	<ul> <li>Known maternal history for substance use (inclusive of</li> </ul>
	to CHild Welfare for a Plan of Safe Care	alcohol)
		Positive maternal drug screen
		And the following criteria:
		o No/late prenatal care (<4 visits or after 16 weeks)
		o Symptomatic infants o Unexplained abruption
		1.2.2 A Plan of Safe Care referral to Child Welfare should be
		made for infants
		Affected by Substance Abuse:
		Positive urine, meconium or cord segment dru
		screen with confirmatory testing in the contex
		of other clinical concerns as identified by curre
		evaluation and management standards. <i>Or</i>
		2. The infant's mother has had a medical
		evaluation, including history and physical, or
		behavioral health assessment indicative of an

1.3 Each nursery communicates activities

to families

• Affected by Withdrawal Symptoms:

• The infant manifests clinically relevant drug or alcohol withdrawal.

active substance use disorder, during the

Affected by Fetal Alcohol Spectrum Disorder(s) (FASD)

pregnancy or at time of birth.



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1 Proper		1.3.1 Each nursery develops appropriate education to ensure
Identification		staff competency and family understanding of NAS identification
(cont)		Identification
	1.4 Each nursery identifies potential barriers to discharge on admission	<ul> <li>1.4.1 Each nursery identifies:</li> <li>PCP as early as possible after admission</li> <li>Resources needed to support discharge of infant with mother/caregiver</li> <li>As early as possible whether a report beyond referral for a POSC needs to be made to Child Welfare regarding infant safety or risk for neglect, whether CPS referral will be needed-differentiate between a notification to Child Welfare due to meeting critera in 1.2.2 or report to Child Welfare due to concern about infant being at risk for abuse or neglect prior to or upon discharge. See Title I of Child Abuse Prevention and Treatment Act; Public Law No: 114-198, The Comprehensive Addiction and Recovery Act of 2016</li> </ul>
2. Proper	2.1 Each nursery adheres to a	2.1.1 Each nursery adopts either the Modified Finnegan
Evaluation	standardized plan for the evaluation of infants at risk for or showing signs of withdrawal	assessment-scoring tool or Eat Sleep Console (ESC) Method 2.1.2 Each nursery develops evidenced based protocols for scoring to include but not limited to:  • When to score  • When to begin pharmacologic treatment

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2. Proper	2.2 Each nursery standardizes practices	2.2.1 Competency training for staff for either Finnegan
<b>Evaluation (cont)</b>	related to scoring that will improve inter-	assessment or ESC methods done at orientation and annually
	observer reliability and provide	2.2.2 Units adopt a dual observation requirement before infants
	consistency in scoring of the infant at	are started on pharmacologic therapy.
	risk for or showing signs of withdrawal	
	2.3 Each nursery recognizes the	2.3.1 Each nursery prioritizes infants with NAS/NOWS for
	importance of consistency with	primary nursing
	caregivers	primary materials
	_	
	2.4 Each nursery communicates	2.4.1 Daily contact at bedside or by phone with parent or
	activities to families	guardian
		2.4.2 Employ standardized materials that educate families
		regarding scoring for Finnegan or ESC method
		2.4.3 Develop programs to allow family/guardian to participate
		in Finnegan scoring or decision to administer medication for ESC.
		ESC.
	3.1 All nurseries employ non-	3.1.1 Non-pharmacologic supportive measures started
3. Proper	pharmacologic treatment techniques	immediately after identification of at risk
Treatment	prior to initiation of pharmacologic	3.1.2 Minimizing environmental stimuli including low noise,
11 cutilicité	treatment	low light, limiting visitors, cluster care
		3.1.3 Consider best location for hospitalization (Private
		room?)
		3.1.4 Swaddling
		3.1.5 Encourage Maternal Presence
		3.1.6 Encourage Skin to Skin
		3.1.7 Encourage Kangaroo Care
		3.1.8 Lactation Support

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3. Proper		3.1.9 Breastfeeding and the provision of expressed human milk should be encouraged if not contraindicated for other
Treatment (cont)		reasons
	3.2 Each nursery develops and adheres to a center defined standardized plan for the pharmacologic treatment of the infants at risk for or showing signs of withdrawal	3.2.1 Consider mother's substance exposure in selecting pharmacologic therapies 3.2.2 Hospitals identify standard first line medication: Morphine, Methadone or Clonidine. 3.2.3 Obtain pharmacy consultation when considering medical therapy 3.2.4 For Finnegan centers medications will be initiated based on the following process in scoring: Average of any 3 consecutive scores is >/=8 or average of any 2 consecutive scores is >/=12 3.2.5 Hospitals develop standard pharmacologic protocols whether ESC or Finnegan based. Includes weaning and escalation parameters, and drug to be used if a second medication required.
	3.3 Each nursery educates staff and parents on proper treatment	3.3.1 Develop standardized materials that educate families regarding ESC methodology 3.3.2 Routinely educates families on NAS treatment
4. Proper Discharge	4.1 Each nursery has a standardized minimum length of stay for all infants at risk for opioid withdrawal.	4.1.1 At risk is defined as including known antenatal drug exposure, a positive drug test or clinical signs or symptoms 4.1.2 Adhere to AAP length of stay standard of 4-7 days for all infants at risk for opioid withdrawal

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### 4. Proper Discharge (cont)

4.2 Each nursery adheres to a standardized plan for the discharge of infants and family/caregiver

4.2.1 Each center develops stability triggers for notification of proper organizations, family and PCP of pending discharge. 4.2.2 Each center includess infant and family/caregiver criteria for discharge to include but not limited to:

- Identified caregiver
- Medically stable with adequate weight nutrition
- Clearance from all hospital or outside agencies (social work, CPS etc.)
- Home situation reviewed
- PCP identified and verbally updated with handoff
- Follow-up appointments made or caregiver notified of needed follow-up appointments
- Outpatient resources identified
- Determine if outpatient meds/treatment (i.e. methadone) available in community pharmacy
- Caretaker demonstrates normal infant care
- Caretaker demonstrates ability to adequately feed infant'
- Caregiver demonstrates non-pharmacologic treatments
- Caregiver provides return demonstration of medication administration
  - If caregiver is in recovery for opioid use disorder, have visiting nurse administer
- Caregiver recognizes symptoms of withdrawal
- Caregiver is educated as to when to notify PCP if concerned
- CMARC referral

4.3 Each nursery develops appropriate education to ensure staff competency and family understanding of discharge

4.3.1 Develop standardized materials that educate staff and families regarding discharge

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### 4. Proper Discharge (cont) 4.4 Each nursery assures every family receives education regarding all elements of safe sleep for newborns 5.1 Each hospital models all elements 5. Safe Sleep of safe sleep for newborns **Practices**

4.3.2 Education for families on NAS discharge includes:

- Normal infant care
- Feeding infant
- Non-pharmacologic treatments
- Medication administration if applicable
- Symptoms of withdrawal
- When to notify PCP if concerned

4.4.1 A discussion of safe sleep practices and the risks of unsafe sleep practices is conducted with the mother/parents/caregivers prior to discharge 4.4.2 Standardized materials are given to mother/parents/caregivers prior to discharge as a reference 4.4.3 Consider incorporating the safe sleep calculator into discharge discussions regarding safe sleep

- 5.1.1 AAP 2022 safe sleep recommendations are incorporated into policy
- 5.1.2 Annual training updates include review of AAP 2022 safe sleep recommendations
- 5.1.2 AAP 2022 safe sleep recommendations are incorporated in to practice and measured via safe sleep audits which include:
  - Infant in supine position
  - Infant in a crib, or bassinet with a firm flat mattress; the head of bed should be flat
  - Sleeping space free of extra items, including loose blankets, pillows, bumpers, and stuffed toys
  - Infant sleeps in their own sleep space and not with another person

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5. Safe Sleep		modifiers for care in the unit are acceptable and
Practices (cont)		explained
		5.1.3 Consider partnering with Cribs for Kids' National Safe
		Sleep Hospital Certification program
	5.2 Each hospital assures a discussion	5.2.1 Use of crib cards affirming safe sleep practices
	with all mothers/parents families	5.2.2 Documentation of safe sleep counseling in all infant
	regarding the importance of safe sleep	charts at discharge
	practices (100%)	5.2.3 Use of safe sleep calculator
	5.3 Each hospital assures	5.3.1 Distribution of Safe Sleep sheet information discussing
	mothers/parents receive reference	reasons for safe sleep and recommended safe sleep practices
	materials regarding the importance of	
	safe sleep	